2629 Gniffin Partners 2629







4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Carrie Reese

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2629

Expiration Date 2/28/2010

Generator: Griffin Partners

Address: 1800 Space Park Drive

Nassau Bay, TX 77602

Waste Information

Name of Waste: Wastewater and Oil

TCEQ Waste Code #:

Container Type:

Detailed Description of Process Generating Waste:

Wastewater from chiller and oil from elevator shaft collected from site closure

Color: grey

Odor: hydrocarbon

pH: 4-11

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

standard ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

1. Not recyclable
2. Is it Municipal?
3. If not, need a
waste code.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048 U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Gene	rator Information	Dhusia	al Add	vess!
Company:	Griffin Partners	7/10/3/10		
Address:		uite 1300 - 1800 Space par		
City, State, Zip:		056 - Nassau Bay, TX 7		
Contact:	Gerardo Alejandro		Title:	Owner's Representative
Phone No:	713) 466-6800		Fax No:	713) 466-4234
24/hr Phone:	713) 702-2004 Ce	11		713) 100 1231
U.S. EPA I.D. No:	N/A		_	
State I.D.			SIC Code:	N/A
State L.D.	w Cest	G	_ Sie coue.	1071
SECTION 2: Billin	g Information – 🔲 S	same as Ahove		
Company:	Vertex Recovery	ane as more		
Address:	2323 Clearlake City		i	
City, State, Zip:	Houston, TX 77062		· · · · · · · · · · · · · · · · · · ·	
Contact:	Carrie Reese	Title:	Business Dev	elopment Manager
Phone No:	713-569-7718	Fax No:	281-596-4409	*
- I none 140.	713-307-7710	Pax No.	201-370-4407	
SECTION 3: Gene	ral Description of the	Waste		
Name of Waste: Waste: Waste Detailed Description used to cool and heat	aste water from a Chil n of Process Generati the buildings in the o	ling and Heating Undergroung Waste: Waste water fro den days, closed chilling un	nd Mechanical I om old undergro nit and soil	Piping and O.1 from Elevator She und Chilled and Heating piping. From elevator shaff
Physical State:	☑ Liquid☐ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combinatio	n Phenois? No
Color: grey	C	odor: hydrocak		n Phenois? DNO Dara Sido Phenolo D
Specific Gravity (wa	nter=1): <u>na</u>	Density: na lbs/gal		
Layers:	Single-phase	Multi-phase		
Container Type: Container Size:	Drum	☐ Tote ⊠	Truck 10000	Other (explain) Several trips to Site
Fraguener	Woolde	Monthly] Quarterly	Yearly
Frequency: Number of Units (co	Weekly	Monthly		ine when we need to dispose of this
				e or four trips to the project site,
	ace Park Dr., Nassa		anticipate tine	e or rour trips to trie project site,
Texas State Waste C				
		Remole		
Proper U.S. DOT Sh	ipping Name:	Non ecra i	Von DOT	Rogulated Material
Class: N/13	UN/NA	" _N/A _	PG: N	RQ: NA
Flash Point	pH 4-1	Reactive Sulfides	Reactive C	yanides Solids

Oil&Grease	TOC A)m	Zinc	Copper	Nickel	
M/T mg/l	/////mg/l	<u> </u>	//////////////////////////////////////	//////////////////////////////////////	
CECETON 4 No. 1	,	,	,		
SECTION 4: Physics	al and Chemical Data				·
	<u>COMPONENTS T</u>			Concentration	Units
	aste consists of the fol	lowing materials		Ranges are acceptable	or %
Water			99	1-91	95 %
Solid and sediment		. <u> </u>	1	<u>'- </u>	1
0,1				- 9	1/5
		·			
	· · · · · · · · · · · · · · · · · · ·				
SECTION 5: Safety	Related Data				
If the handling of this	waste requires the us	e of special protectiv	e equipment, pl	ease explain.	
none					
SECTION 6. Attach	ed Supporting Docume	anta			
			_		
	otes, data, and/or anal	ysis attached to this t	form as part of t	he waste approval packa	ge.
none					
SECTION 7: Incomp	<u>patibilities</u>				
Please list all incompa					
none	monicies (ii any).				
SECTION 8: Genera	tor's Knowledge Docu	<u>umentation</u>			
Lahoratory analysis o	of the hazardous waste	characteristics, liste	d below. WAS N	NOT PERFORMED base	d upon the following
generator knowledge:		cital actor istics, fist	a below, was i		a apon the following
9					
TCLP Metals:	<u>na</u>				
TCLP Volatiles: TCLP Semi-Volatiles:	<u>na</u>				
Reactivity:	na na				
Corrosivity:	na				
Ignitability:	<u>na</u>				
CECTION O. C.	4				
SECTION 9: Genera		_			
				alytical data. I hereby cer	
				ibility to determine that n have been disclosed. I ce	
tested are representative				nave been disclosed. I ee	Tiny that the material
•	_	-		2/20/12	
Authorized Signature	:_('QVICLI	Ose	·····	_ Date: 2/28/03	
Printed Name/Title:	Λ ·	- Aula	Da Bar	1 and to	
Printed Name/Title:	Carrie role) 1100101.	REPION	_General	
				·	
CES USE ONLY (DO NOT	WRITE IN THIS SPACE)				
Compliance Officer:	abhuthor	d	Additional Infor	mation:	
Date: 2790	Approve	ed Rejected			

Approval Number:

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? 📈 YES





If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

<u>Meta</u>	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants — Chiller Water Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
П	Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at	or in excess of 100 mg/L, the	he waste should be classified	in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

	Metals Subcategory
X	Oils Subcategory
П	Organics Subcategors

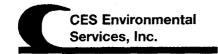
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$ 0.10/gal +trans+fsc
2.	Contamination Limits (maximum limit before surcharges apply):
	Standard
3.	Surcharge Pricing:
	< 1000 TOC, \$0.03/gel/5000 TOC above
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Separate oit phase
İ	Standard Oily Waster
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	1. <u>Tests for Product Recovered/Recycled (II applicable):</u>	
	Chlor d tech for	perovered oil
8.		
8.		

10M

7 E 8-4-09 7-35 LAD



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2631

Expiration Date 3/3/2010

Generator: IDM

Address: 11616 Galayda

Houston, TX 77086

Waste Information

Name of Waste: Diesel and water (rain)

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Rain filling up containment for diesel tank (unused diesel)

Color: dark

Odor: slight

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 IS

ISWR No: 30900

SECTION 1: Gener	ator Information			
Company:	IDM			
Address:	11666 Gal	ayda		
City, State, Zip:	Howitan	7× 77086		
Contact:	Lillian		Title:	Safety
Phone No:	14-947	9000	Fax No:	
24/hr Phone:	· · · · · ·		····	,
U.S. EPA I.D. No:	- NA	····		<i>k</i>
State I.D.	MA_	•	SIC Code:	NA
SECTION 2: Billing	Information - Sa	ime as Ahove		
Company:	CKG GWA	1/1		
Address:		Wen Laylaber 10	7	
City, State, Zip:	Mentionen	JU 77386		
Contact:	Za mka	Title:	Parad	wt
Phone No:	281-541-4	829 Fax No:	976-75	6- 1226
		,		
	al Description of the			
Nome of Waster	Period & Worter	(Rain)		
Name of waste:	of Propose Consentin	Waster Dr. K	illiano Co	intermed for Desir Tenh
neration heart shrioti	of Flocess Generalin	ig waste: Koron	Desal	in the factor
Physical State:	Liquid	☐ Sludge	Powder	
x oystem billion	Solid			_
	☐ 2000	Filter Cake	Combination Combination	
Color: Dak	O	dor: <u>Sluthi</u>	Does this n	naterial contain any phenolic components of contain any parasubstituted
			_	TNOIL
Specific Gravity (wa	ter=1):	Density: 8 lbs/gal	Does this	naterial contain any rescubility
	<i>'</i>		phenolis in	mpounds? [NOI]
Layers:	Single-phase	Multi-phase	Timere	misounds / Noll
	•			
Container Type:	□ Drum	Tote !	Truck	Other (explain)
Container Size:				
Frequency:	Weekly	Monthly	Quarterly	T Yearly
	ntainers): <u>J</u> 4		Quarterty	
			-	
Texas State Waste C	ode No: RE	CYCLE		
Proper U.S. DOT Sh		Recyachle	Meteria	
Class: NA	UN/NA		PG:	RQ: NA
Class: NA	Chully	- TVA	^ <u></u>	10/1
	The same and the same of the s			
Flash Point	pH ,	Reactive Sulfides	Reactive C	yanides Solids
7200	reunal			22 %
Oil&Grease	TOC mg/l	Zinc	Copper	Nickel
21500mg/1	$\frac{\sqrt{-1}}{mg/l}$	<u> </u>	mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials		Concentration Ranges are acceptable	leits or %
Islam	<u>'</u>	90-95	20
Sediment	~	0-2	%
			_

The waste consists of the following materials	Ranges are acceptable	or %
Clare	90-95	20
Iksial	- 5- (0	96_
Segiment	0-2	%
		<u></u>
SECTION 5: Safety Related Data		
If the handling of this waste requires the use of special protective equipment	t, please explain.	
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to this form as part	of the waste approval packag	se.
SECTION 7: Incompatibilities		
Place ist all incompatibilities (if any):		
SECTION 8: Generator's Knowledge Documentation		
Laboratory analysis of the hazardous waste characteristics, listed below, Wagenerator knowledge:	AS NOT PERFORMED based	l upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:		
SECTION 9: Generator's Certification		
The information contained herein is based on penerator knowledge and/or attached description is complete and accurate to the best of my knowledge a omissions of composition properties exist and that all known or suspected haze tested are representative of all materials described by this document.	nd ability to determine that no	deliberate or willfu
Authorized Signature:	Date:	
Printed Name/Title: The Kaushan	Afflox	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Compliance Officer: Laboratorial I	information:	
Date: 3-3-08 Approved Rejected		

2631 Approval Number: _

SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8,9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 1/31/2008

Dear Mike Manning

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2612

Expiration Date 2/8/2010

Generator: TIW (South Main) **Address:** 12300 South Main

Houston, TX 77035

Waste Information

Name of Waste: Unused grease TCEQ Waste Code #: 00036031

Container Type:

Detailed Description of Process Generating Waste:

Unused Jet-Plex-EP 55 gallon drum

Color: red

Odor: slight hydrocarbon

pH: na

Physical State:

Incompatibilities: strong oxidizers
Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





DB

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information		
Сотрану:	TIW (South Main)		
Address:	12300 South Main		
City, State, Zip:	Houston, TX 77035		
Contact:	Mike Manning	Title:	HSE
Phone No:	713-729-2110	Fax No:	713-728-0834
24/hr Phone:	715-125-2110	- FAX 140.	740 720 0004
U.S. EPA I.D. No:	TXCESQG	-	
State LD.	30292	SIC Code:	NA
SIACE LD.	30272	SIC Code.	101/4
	Information – 🛛 Same as Above		
Company:			
Address:		<u> </u>	<u> </u>
City, State, Zip.			
Contact:	Title:		
Phone No:	Fax No:		
SECTION 3: Gener	al Description of the Waste		
Name of Waste: Uni			
Detailed Description	of Process Generating Waste: Unused let-Plex-	EP in 55 Gallo	<u>a Drum</u>
Physical State:	🗌 Liquid 🔯 Sludge 🛴	Powder	
	Solid Fifter Cake	Combination	•
		,	•
Color: Red	Odor: Slight Hydrocarbon		
Cotor. <u>Red</u>	Sugar Aydrocaroon		
0. 10.0	4 ** 01 ** 4 ** 4 **		
Specific Gravity (wat	ter=1): <u>.91</u> Density: <u>7.6</u> lbs/gal		
Does this material co	ntain any total phenolic compounds? 🔲 Yes 👚	⊠ No	
			_
Does this material co	ntain any para substituted phenolic compound	s? 🗌 Yes 🛭 🛭	No
	·		
Layers:	🔲 Single-phase 🗵 Multi-phase		
Container Type:	☑ Drum ☐ Tote ☐	Truck	Other (explain)
Container Size:	55 Gal		
Configurer 2856:	55 Gai		
Frequency:	☐ Weekly ☐ Monthly ☐	Quarterly	☑ Yearly
Number of Units (co			
Texas State Waste C	-		
i exas State Waste C	Ode No:		_
Proper U.S. DOT Sh	ipping Name: Non-RCRA, Non DOT	Regulated Wa	ste Grease
200 70000000000000000000000000000000000			·
Class: Na	UN/NA: Na	PG: Na	RQ: Na
			<u> </u>
The West of the Control of the Contr		No.	The state of the s
Control of the Control of Control		No. of the contract of the con	ordered -
	· · · · · · · · · · · · · · · · · · ·		

Flash Point >430	pH Na	Reactive Sulfides Omg/l	Reactive Cy Omg/l	/anides	Solids 50-95%
Oil&Grease	TOC	Zinc	Copper	Nickel	
Allmg/I	Namg/I	<u>Na</u> mg/l	Namg/I	Namg/l	

SECTION 4: Physical and Chemical Data

COMPONE PASSA AND	Chila	Units
The waste consists of the following materials	Ranges are acceptable	or %
Jet-Plex-EP	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Strong Oxidizers

Strong Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
lgnštability:	$\bar{\mathbf{x}}$

SECTION 9: Generator's Certification

The information contained herein is based on \(\sum \) generator knowledge and/or \(\sum \) analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	2011 Ch	Date: 02/06/	<u>/08</u>
Printed Name/Title: MICHAEL	CMANNING.	MAI DIENONCE MC	<u>ا</u>

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Colbut Hay	A. A.
Date: 2-8-08 Approved Rejected	
2/12	- 12-12-12-12-12-12-12-12-12-12-12-12-12-1
Approval Number:	

<u>\$1</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>37</u>	
ls	this material a wastewater or wastewater sludge? [YES	⊠ NO	
1f	'Yes', complete this section.		
PL	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATEGORY, GO TO TH	E NEXT PAGE.
Meta	els Subcategory: Subpart A		
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from elections deburring wastewater Alkaline and acid solutions used to clean metal parts or equip		
Oils .	Subcategory: Subpart B		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes		
<u>Orga</u>	mics Subcalegary: Subpart C		- 1
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sour Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxics formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	ces	
			A second second
		en de la composition br>La composition de la	
rag a.		3	

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

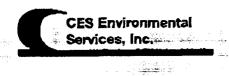
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory
Operation Statement

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freigh	<u>D):</u>				
	\$55/DM \$69/hr plus FSC					
	energy e					
2.	Contamination Limits (maxis	num limit before surchar	ges apply):			
	NA			Appendix of the Control of the Contr		
			•			
	代表() (利益() () () () () () () () () () () () () (
3.	Surcharge Pricing:					
	Na			<u> </u>		
					4	
						í
4.	Special Testing Requirements	•	Company of the Compan			
	Na					
5 <i>.</i>	Treatment and Handling Prot	acol:				
	Put in Class 1 Sludge Box					
						l
б.	Treated Wastewater Discharg	e Subcategory;				
	Subcategory A	Subcategory B	Subcategory C			

5



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

. Tests for	Product Recovered/Recycled (if application		
Na		· · · · · · · · · · · · · · · · · · ·	
		Sw s	
<u> </u>			
36	nent for Product Recovered/Recycled (i	f annlicable):	
-	TODE TO TOWN TO THE TOTAL AND THE TOTAL OF T		
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6

JET-PLEX-EP ™ LITHIUM COMPLEX GREASE

DESCRIPTION

JET-PLEX-EP™ Lithium Complex Grease is the ideal multipurpose grease for use in extreme pressure and high temperature operating conditions. It is the top of the line product for severe applications and general purpose lubricant.

JET-PLEX-EP is manufactured from carefully selected petroleum oils and lithium complex soap to create a multipurpose grease with a dropping point of 550°F (288°C). It has a smooth texture with a heavy body consistency, but provides good pumpability in both hot and cold operating temperatures. **JET-PLEX-EP** has excellent resistance to water and water washout problems. Oil separation is minimal even under extreme pressure. Heat cycling produces only a minor change in consistency. **JET-PLEX-EP** is formulated with special lubricity, anti-wear, and extreme pressure additives and fortified with rust, corrosion and oxidation inhibitors.

- · Lithium complex base
- Excellent for high temperatures, high load applications—will not run or pound out
- · Pumpable both hot or cold
- · Extremely resistant to rust and oxidation
- Smooth in texture
- · Color-Red typical
- · Available in NLGI "1" and "2" grades

APPLICATIONS

JET-PLEX-EP is recommended for all types of bearing and sliding applications, for shock-loading, pounding, rough chassis usage and high loads. **JET-PLEX-EP** is the multipurpose lubricant that can replace several conventional type greases, resulting in smaller required inventories and less chance of misapplication.

PRODUCT CHARACTERISTICS

Thickener	Lithium Complex
Fluid Type	Petroleum Oil
Color/Appearance	Red
Dropping Point (ASTM D-2265)	>550°F (288°C)
Specific Gravity	0.91
Density (lbs./gal.)	7.6
Additive Type	Organic EP/AW & R&O
Flash Point (ASTM D-92)	>430°F (221°C)
Autoignition Point (Calculated)	>500°F (260°C)
NLGI Grades	1 & 2
Copper Strip Corrosion	1A
(ASTM D-4048)	
4-Ball (ASTM D-2596)	
Weld Point, kgf	315
Load Wear Index	38
Wear Scar Diameter (ASTM D-2266)	0.45
Oxidation Resistance (ASTM D-942)	
PSI Drop, 100 hours	<5.0
Base Oil Viscosity (ASTM D-445)	
cSt @ 40°C	140 - 200
Wheel Bearing Life Performance	180 hrs. typ.
(ASTM D-3527)	

PACKAGING

Code No.	Container Size	Container
31750	14 oz.	Cartridge
31705	1 lb.	Can
31706	5 lb.	Can
31716	35 lb.	Pail
31724	120 lb.	Drum
31729	400 lb.	Drum

LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube. Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

CORPORATE LOCATIONS

Houston, Texas-World Headquarters

Maidenhead, England

Edmonton, Canada

JET-LUBE, INC. 4849 HOMESTEAD RD., P.O. BOX 21258 (77226-1258) HOUSTON, TX 77028 WATS: 800-538-5823 PHONE: 713-674-7617 FAX: 713-678-4604

E-MAIL: sales@jetlube.com www.jetlube.com

EPAHO108002234

JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Manufacturer/Supplier: JET-LUBE, INC. Product Name: JET-PLEX-EP™ Address: 4849 Homestead Rd., Ste. #200 Chemical Family: Lithium based lubricating grease Houston, TX, 77028 USA Phone: 713-674-7617 Use: Equipment lubrication Emergency Phone: 713-674-7617 Fax: 713-678-4604 Chemtrec 24 hours (USA): 800-424-9300 Other Limits of Exposure CAS No. Wt% **OSHA PEL** ACGIH TLV **Hazardous Components** 64742525/64742014 Petroleum Oil 60-80 Oil Mist TWA-5mg/M³ Nonhazardous Blend 7059167/6891936 20-30 9003274/6841146 68815496 Main Hazards-Health Effects Eyes; May cause irritation. Inhalation: Viscous nature may block breathing passages if inhaled. Ingestion: May cause diarrhea. Skin: For hypersensitive persons, may irritate the skin after prolonged periods of contact. Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help. Ingestion: Consult physician. Skin: Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse. Extinguishing Media: Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist. Unsuitable Extinguishing Media: Water jet. Protective Equipment for Fire fighting: Self-contained breathing apparatus. Personal Precautions: Wear gloves & protective overalls. Environmental Precautions: Avoid disposal into drains Spillage: Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth. Handling: No special handling precautions necessary. Storage: Do not store at elevated temperatures Respiratory Protection: None needed. Hand Protection: Protective gloves for hypersensitive persons. Eye Protection: Glasses, if applied to parts in motion. **Body Protection:** Overalls. Physical State: Semisolid paste Color: Red Odor: Petroleum pH: Neutral Boiling Range/Point °F (°C): UN Flash Point (COC) °F (°C): >430 (221) Autoignition Temperature °F (°C): >500 (260) Melting Point °F (°C): N/A Explosive Properties: LEL: 0.9% UEL: 7% Evaporation Rate (Butyl Acetate): <0.01 Partition Coefficient (Log Pow): N/A Vapor Pressure (kPa): <0.01 Percent Volatiles: Nil Density (g/cm²): .91 Flammability: Not flammable at ambient temperature. Oxidizing Properties: None Water Solubility: Nil Stability: Chemically stable under normal conditions. No photoreactive agents. Conditions to Avoid: Powerful sources of ignition & extreme temperatures. Materials to Avoid: Strong inorganic & organic acids, oxidizing agents. Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon, sulfur and nitrogen. Residue mainly comprised of soot & mineral oxides Acute Toxicity: Not known. Irritancy-Skin: Very mild. Skin Sensitization: Not known. Subacute/Sub-chronic Toxicity: Not known. Genotoxicity: None known. Chronic Toxicity: None known. California Prop 65: N/A Carcinogen: NTP: No IARC: No OSHA: No EC Classification (67/548/EEC): No Allergens: None known. LC-50: >2000mg/i—extrapolated from component data. LD-50: N/A Possible Effects: Behavior: Relatively well behaved. Bioaccumulation potential nil. Environmental Fate: Highly unlikely to cause widespread contamination. Nontoxic to marine or land organisms. Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice. Container Disposal: Pails without liner-see Product Disposal section above. Pails with plastic liner-pail may only be disposed of via standard waste disposal services, recycled or reused. Liner-see Product Disposal section above. Not classified as hazardous for transport. D.O.T.: Nonhazardous UN No.: Nonhazardous Air Transport (ICAO & IATA); Nonhazardous Sea Transport (IMO & IMDG): Nonhazardous Road & Rail Transport (ADR/RID): Nonhazardous <u>S Phrases:</u> None applicable, as known. <u>Ozone Depleting Chemicals:</u> Not applicable. <u>TSCA:</u> All components are listed. Canadian DSL: All components listed. 40 CFR Part 372 (SARA Section 313): N/A WHMIS (Canada): Not controlled. CERCLA: Nonhazardous RCRA Hazard Class: Nonhazardous SARA 311/312: None TSCA 12B Components: None SDS first issued. SDS data revised. New Jersey Right To Know: See Section II

Signature: Vandle Adaptive Prepared by: Donald A. Oldiges
Date Issued: September 1, 2006

As of issue date, the information contained herein is accurate and reliable to the best of JET-LUBE'S knowledge. JET-LUBE's does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

LEGEND I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY II. COMPOSITION INFORMATION ON INGREDIENTS III. HAZAROS IDENTIFICATION IV. FIRST AID MEASURES V. FIRE FIGHTING MEASURES VI. ACCIDENTAL RELEASE MEASURES VIII. HANDLING AND STORAGE VIII. EXPOSURE CONTROL/PERSONAL PROTECTION IX. PHYSICAL AND CHEMICAL PROPERTIES X. STABILITY AND REACTIVITY XI. TOXICOLOGICAL INFORMATION XIII. ECOLOGICAL INFORMATION XIII. WASTE DISPOSAL XIV. TRANSPORT INFORMATION XIV. TRANSPORT INFORMATION X. REGULATORY INFORMATION

XVI. OTHER INFORMATION





Waste Pre-Acceptance/Approval Letter

Date 1/31/2008

Dear David Phillips

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2613

Expiration Date 2/11/2010

Generator: Hydrochem at Targa Midstream Services

Address: 10319 Hwy 146 North

Mont Belvieu, TX 77580

Waste Information

Name of Waste: Wastewater

TCEQ Waste Code #: CESQ1102

Container Type:

Detailed Description of Process Generating Waste:

Wastewater from precleaning new boiler

Color: varies

Odor: slight

pH: 8-11

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

DC

· See 4 neads water 70 range · 4 95- 98.5 9. · Category D. ? - YEBNO · Cryphrics

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

Charles de a					
SECTION 1: Gene Company:	Hydrochem at Targa M	idetraam Sarvicae			
Address:	10319 Hwy 146 North	idsircam Services	,		
City, State, Zip:	Mont Belvieu, TX 775	80			
Contact:	Rod Stattum	00	Title:		
Phone No:	713-737-5556		Fax No:		
24/hr Phone:	113-131-3330		Pax 110.		
U.S. EPA I.D. No:	TIXCESOG				
State I.D.	CESQEI		SIC Code:	NA	
State LD.	_CEOMEI		bic code.	1171	
SECTION 2. Billin	g Information – Same	as Ahova			•
Company:	Hydrochem	as Above			
Address:	620 Howard Drive				
City, State, Zip:	Deer Park, TX 77536	WANTED TO THE PARTY OF THE PART			
Contact:	David Phillips	Title:	Account Mana	ger	
Phone No:	281-935-3931	Fax No:	281-479-8982	igoi	
I Holle 110.	201-232-3231		201-477-0502		
CECTION 1. Come	ual Dagawintian of the XX	ata .			
SECTION 3: Gene	ral Description of the Wa	ste			
Name of Waste: W		87 - A		1 !1	
Detailed Description	of Process Generating V	vaste: wastewater from	precleaning a ne	ew boiler	
Physical State:	∠ Liquid □	Sludge	Powder		
rnysical State:					•
	Solid	Filter Cake	Combination	l	
	0.1	4. 4.			
Color: varies	Odor	: <u>slight</u>			
Specific Gravity (wa	ater=1): 1	Density: 8.34 lbs/gal	•		
~pooling of a ring (it.		value-j. <u>0.0 .</u> Bar			
Does this material c	ontain any total phenolic	compounds? 🗌 Yes	⊠ No		•
Does this material c	ontain any para substitut	ed phenolic compounds	? 🗌 Yes 🛛	No	
Layers:	Single-phase	Multi-phase			1
Container Type:	Drum 🗌	Tote 🛛	Truck		Other (explain)
Container Size:			5000 gal		
TD		No	O		Warnin.
Frequency:	☐ Weekly ☐	Monthly	Quarterly		Yearly
Number of Units (co		Other: One time			
Texas State Waste C	Code No: CESQ1	102			
Proper U.S. DOT Si	nipping Name:	Non RCRA Non DOT	Regulated Mate	rial	
Class: NA	UN/NA:	NA	PG: NA		RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cy	anides	Solids
>1 20 200	<u>8-11</u>	<u>O</u> mg/l	<u>O</u> mg/l		<u>0-</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>O</u> mg/l	mg/l	<u>0</u> mg/l	0mg/l	<u>O</u> mg/l	•

SECTION 4: Physical and Chemical Data

COMPONENTISTABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water		
Trisodium Phosphate	0.5-1.5	%
Sodium Metasilicate	0.5-1.5	%
Surfactant F057	0-0.5	%
Soda Ash	0.5-1.5	%
Mater	95-00	190

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. <u>MSDS</u>

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	\mathbf{x}
Reactivity:	X
Corrosivity:	\mathbf{x}
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

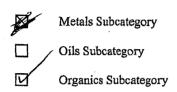
Authorized Signature:	Date: 2/8/58
Printed Name/Title: Jeff Pedderson, Sr. Env. Specialist	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Date: 2-11-08	New boiler Commissioning

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	his material a wastewater or wastewater sludge? X YES NO
If '	Yes', complete this section.
PL.	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.



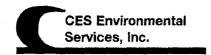
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

l.	Base Pricing (including freight):
	Disposal - \$0.15/gallon Freight - \$350.00/load
2.	Contamination Limits (maximum limit before surcharges apply):
-	Price good for solids <1% and 10,000 TOC
3.	Surcharge Pricing:
	Solids: \$0.01/gallon/%greater than 1%
	TOC: \$0.03/gallong/5000°TOC greater than 10,000 TOC
4.	Special Testing Requirements:
	TOC, pH, Metals
5.	Treatment and Handling Protocol:
6.	Treated Wastewater Discharge Subcategory:
10	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Tests for Product R	ecovered/Recycled (if applic	able):		
NA			 	
,				
			•	
	i i			
1.6°				
Management for Pr	oduct Recovered/Recycled (if applicable);		
	oduct Recovered/Recycled (if applicable);		
	oduct Recovered/Recycled (if applicable);		
	oduct Recovered/Recycled (if applicable);		
	oduct Recovered/Recycled (if applicable);		
	oduct Recovered/Recycled (if applicable);		
Management for Pr NA	oduct Recovered/Recycled (if applicable);		

MATERIAL SAFETY DATA SHEET



Page:

DATE PREPARED: 12/22/2000

MSDS No: M003
Soda Ash, light

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Soda Ash, light

Product Code: M003

Product Name: Sodium Carbonate

Chemical Family: Alkaline Molecular Formula: Na₂CO₃ Generic Name: Soda Ash

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

 $HydroChem\ ER$

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

wt.% CAS Registry #

Sodium carbonate

100

497-19-8

COMMENTS:

Exposure limits for this product are not established. A TLV of 10 mg/m3 is recommended for dust.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White powder

IMMEDIATE CONCERNS:

No hazard in normal industrial use.

Dust may be irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:

Inhalation

TARGET ORGANS:

No Data



Page: 2

DATE PREPARED: 12/22/2000

MSDS No: M003 Soda Ash, light

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable Flammable Limits: Not Applicable

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Sodium oxide, oxides of carbon

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Scoop into appropriate containers. Flush residual with plenty of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

Page: 3

DATE PREPARED: 12/22/2000

MSDS No: M003 Soda Ash, light

STORAGE:

No special precautions required. Avoid wetting.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from dust, use NIOSH approved respirator with dust protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: White pH: 10.3

Percent Volatile: None

Vapor Pressure: Not Determined Boiling Point: Decomposes Solubility in Water: 17 at 68°F Specific Gravity: 2.509 (water=1)

COMMENTS:

pH: for a 1% solution

Water Solubility: Solubility listed above is grams per 100 grams of water.

10. STABILITY AND REACTIVITY

STABLE: Yes



DATE PREPARED: 12/22/2000

MSDS No: M003 Soda Ash, light

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Sodium oxide

INCOMPATIBLE MATERIALS:

Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Irritant. May cause pain, redness, discomfort.

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Dust is irritating.

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: VZ4050000 - sodium carbonate

LD50 (rats) = 4090 mg/kg (sodium carbonate)

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable. Fish Toxicity: Low toxicity to fish.

COMMENTS:

LC50 (P. promelas) = 400 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



Page: 5 DATE PREPARED: 12/22/2000 MSDS No: M003 Soda Ash, light

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers in useable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Sodium Carbonate - Not Regulated

Reportable Quantity (RQ) Under CERCLA: None

Placards: None Label: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Dian Ma Da

Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: N

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT) Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review



Page: 6
DATE PREPARED: 12/22/2000
MSDS No: M003
Soda Ash, light

Approved by: Charles M. Maddin, PhD, FAIC

Approval date: 10/19/2000

REVISION SUMMARY

Revision #: 3

This MSDS replaces the November 09, 1998 MSDS. Any changes in information are as follows: In Section 1

Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry Target Organs

In Section 9

(pH) (from) (Group Field) for Water Solubility Water Solubility (from) (%) Water Solubility Temperature °F Water Solubility Comments

In Section 15 SARA Title III Notes

NFPA CODES

Fire: 0 Health: 1

Reactivity: 0

HMIS CODES

Fire: 0 Health: 1

Reactivity: 0

MANUFACTURER DISCLAIMER:

[TM] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.



Page: 1

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Trisodium Phosphate, dodecahydrate

Product Code: M008

Product Name: Trisodim Phosphate, Dodecahydrate

Molecular Formula: Na₃PO₄:12H₂O

Generic Name: Sodium phosphate - tribasic, TSP

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

 $\mathrm{wt.\%}$

CAS Registry #

Trisodium Phosphate Dodecahydrate

 $\sim \! 100$

10101-89-0

COMMENTS:

The TLV for this product is 10 mg/m3 for dust.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White Crystal

IMMEDIATE CONCERNS:

No hazard in normal industrial use.

Dust may be irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing disorders of the skin and lungs.

ROUTES OF ENTRY:

Inhalation

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.



DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.

INHALATION:

If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable

Flammable Limits: Not applicable

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Phosphorus oxide

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Sweep up and place in bag.

Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

STORAGE:

No special precautions required. Avoid wetting.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from dust and mist, use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystal Color: White

pH: 11.6

Percent Volatile: Not Available

Vapor Pressure: Not Determined Melting Point: 167°F 75°C Decomposes

Solubility in Water: 28

Specific Gravity: 1.62 (water=1)

COMMENTS:

pH: pH listed above is for a 1% solution

Water Solubility: Solubility listed above is grams per 100 grams.

10. STABILITY AND REACTIVITY

STABLE: Yes



DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Phosphorus oxide

INCOMPATIBLE MATERIALS:

Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts. Ingestion: Irritant. May cause pain or discomfort to mouth, throat and stomach.

Inhalation: Severe irritant. Causes pain, choking, coughing, burning sensation. Can cause soreness.

TARGET ORGANS:

Skin, Eyes, Respiratory tract

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rat) = 7,400 mg/kg

RTECS Number: TC9575000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish expected.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Environmentally Hazardous Substance, solid, N.O.S. (sodium phosphate, tribasic)

Hazard Class: 9

NA/UN Number: UN3077

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: 5000 lb

Placards: Class 9 Label: Class 9

SPECIAL SHIPPING NOTES:

Not regulated unless RQ exceeded in a single container.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No

Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: 5000 lb

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.



Page: 6
DATE PREPARED: 12/22/2000
MSDS No: M008

Trisodium Phosphate, dodecahydrate

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 10/20/2000

REVISION SUMMARY

Revision #: 2

This MSDS replaces the August 18, 1998 MSDS. Any changes in information are as follows:

In Section 1

Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 11

Target Organ

NFPA CODES

Fire: 0 Health: 2 Reactivity: 0

HMIS CODES

Fire: 0 Health: 2 Reactivity: 0

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Page:

DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Metasilicate

Product Code: M009

Product Name: Sodium Metasilicate

Chemical Family: Alkaline

Molecular Formula: Na₂SIO₃:5H₂O

Generic Name: Sodium Metasilicate - pentahydrate, Disodium metasilicate

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

Emergency Phone

HydroChem ER

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

 $\mathrm{wt.\%}$

CAS Registry #

Sodium Metasilicate, pentahydrate

100

6834-92-0

COMMENTS:

Exposure limits for this product are not established.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White Crystal

IMMEDIATE CONCERNS:

Corrosive.

Do not get in eyes, on skin or clothing.

Do not breath dust

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:

Skin and eye contact and inhalation



DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

Do not induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable Flammable Limits: Not Applicable

Autoignition Temperature: Not Applicable

GENERAL HAZARD:

Corrosive when wet.

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Forms sodium ions and silicic acid when heated to decomposition.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Scoop into appropritate containers.

Flush residual with plenty of water.



DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required.

Avoid wetting.

Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles with face shield required and an eye wash in work area.

RESPIRATORY:

Use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:

Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

eolor: White pH: 12.5

Percent Volatile: None

Boiling Point: Not Determined Melting Point: Not Determined Solubility in Water: Soluble Specific Gravity: 1.75 (water=1)

COMMENTS:

pH: for a 1% solution



DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Forms sodium ions and silicic acid when heated to decomposition.

INCOMPATIBLE MATERIALS:

Acids, Aluminum

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Skin: Severe irritant. Causes pain, redness, dermatitis or mild burn. Not likely to be absorbed in toxic amounts.

Ingestion: Irritant. Harmful if swallowed. Causes pain and severe burns to mouth, throat and stomach. Large amounts may cause illness or death.

Inhalation: Irritant. May cause pain and coughing.

TARGET ORGANS:

Rerpiratory Tract, Digestive System, Kidney, Ureter, Bladder and Paternal Reproductive System (testes, epididymis, sperm duct)

GENERAL COMMENTS:

Carcinogens:

Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: VV9275000

Oral LD50 (rats) for anhydrous material is 1153 mg/kg.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable. Fish Toxicity: No information



DATE PREPARED: 12/22/2000

MSDS No: M009 Sodium Metasilicate

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Ship via permitted waste hauler to permitted hazardous waste disposal facility for landfilling.

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

RCRA Hazardous Waste Number: D002 (corrosive)

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Disodium Trioxosilicate

Hazard Class: 8

NA/UN Number: UN3253

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: None

Placards: Corrosive Label: Corrosive - 8

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard



DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: Yes

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).



DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT) Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 10/20/2000

REVISION SUMMARY

Revision #: 4

This MSDS replaces the April 04, 2000 MSDS. Any changes in information are as follows:

In Section 1

Reason for Issue Date Prepared

In Section 3

Emergency Overview - Immediate Concerns Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 11 Target Organ

NFPA CODES

Fire: 0 Health: 3

Reactivity: 0

HMIS CODES

Fire: 0

Health: 3

Reactivity: 0



DATE PREPARED: 12/22/2000

MSDS No: M009 Sodium Metasilicate

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Page: 1

DATE PREPARED: 10/08/1999

MSDS No: F057 Surfactant F057

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Surfactant F057

Product Code: F057

Product Name: Surfactant F057

Chemical Family: Surface active agents Generic Name: Water soluble surfactant

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

 $\mathrm{wt.\%}$

CAS Registry #

Proprietary Blend of Anionic and Nonionic Surfactants (trade secret)

100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

May be harmful by Skin Contact

Ingestion

Eye contact

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.



DATE PREPARED: 10/08/1999

MSDS No: F057 Surfactant F057

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C TAG CC

Flammable Limits: Not established

Autoignition Temperature: Not Established

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

When heated strongly or burned, carbon oxides, hydrogen sulfide, sulfur oxides and harmful organic chemical fumes are released.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic drum.

Soak up residual on inert absorbant (dry sand, vermiculite, earth).

Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required. Store away from oxidizers.



DATE PREPARED: 10/08/1999

MSDS No: F057 Surfactant F057

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

COMMENTS:

Exposure limits not established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Detergent Color: Yellow pH: 6.5 to 7.5 Percent Volatile: 18

Vapor Pressure: Not Determined Vapor Density: >1 (Air = 1) Boiling Point: Not Determined Freezing Point: Not Determined

Solubility in Water: Completely Miscible in All Proportions

Specific Gravity: 1.07 (water=1) at 68°F

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No



DATE PREPARED: 10/08/1999

MSDS No: F057

Surfactant F057

HAZARDOUS DECOMPOSITION:

When heated strongly or burned, carbon oxides, hydrogern sulfide, sulfur oxides and harmful organic chemical fumes are released.

INCOMPATIBLE MATERIALS:

Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effects expected. Swallowing large amounts may cause illness.

LD(50) = 2 g/kg (rats)

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Mist is irritating.

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Partially biodegradable.

Fish Toxicity: Toxic to fish. Do not allow to enter waterway.

COMMENTS:

LC(50) (P. promelas) = 7 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.



DATE PREPARED: 10/08/1999

MSDS No: F057 Surfactant F057

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Surfactant- Nonregulated Reportable Quantity (RQ) Under CERCLA: None

Placards: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acut

Acute: Yes

Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: None Specified

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approved by: Charles M. Maddin, PhD, FAIC

Approval date: 10/08/1999



Page: 6
DATE PREPARED: 10/08/1999
MSDS No: F057

Surfactant F057

REVISION SUMMARY

Revision #: 6

This MSDS replaces the August 13, 1998 MSDS. Any changes in information are as follows: In Section 16
Reason for Issue

In Section 9 Specific Gravity Temperature °F

In Section 11 Acute Skin

In Section 15 SARA Title III Notes

NFPA CODES

Fire: 1 Health: 3 Reactivity: 0

HMIS CODES

Fire: 1 Health: 2 Reactivity: 0

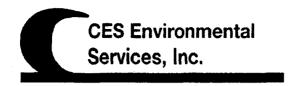
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HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

2614 Andrews Transporter



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 2/15/2008

Dear Dale Mize

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2614

Expiration Date 2/15/2010

Producer: Andrews Transport Inc.

Address: 6635 John Ralston

Houston, TX 77049

Material / Product Information

Name of Material / Product Caustic soda liquid 50%

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

pH: 14

Unused product from trucking company

Color: clear Odor: none

Physical State:

Incompatibilities: see msds

Safety Related Data/Special Handling:

corrosive material; wear rubber gloves, rubber apron, safety goggles or full face shield,

protective clothing

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Mater						
Company:	Andrews Transpor				·	
Address:	6635 John Ralston					
City, State, Zip:	Houston, TX 7704	9				
Contact:	Dale Mize			Title:	Terminal	
Phone No:	832-295-1324			Fax No:	281-458-3	3674
24/hr Phone:	TTTD 100001011					
U.S. EPA I.D. No:	TXD109004341			_ ~~ ~ `	NA	-
State I.D.	38474			SIC Code:		
SECTION 2: Billing Company: Address: City, State, Zip:	z Information – ⊠ S	Same a	as Above			
Contact:			Title:			
Phone No:			Fax No:		····	
			Tax 110.			
SECTION 3: Gener	al Doganintian of the	Mak	wial / Duadust			,
SECTION 3. Gener	ai Description of the	MINI	riai / Froquet			
Name of Material / P Detailed Description				erial / Product:	Unused pro	duct from trucking company
Physical State:	⊠ Liquid □ Solid		Sludge Filter Cake	☐ Powder ☐ Combinatio	n	
Color: clear	C)dor: ¡				
Specific Gravity (was	ter=1): <u>1.53</u>	De	nsity: 12-13 lbs/gal			
Does this material co	ntain any total pher	olic c	ompounds? 🗌 Yes	S 🖾 No		
Does this material co	ntain any para subs	titute	d phenolic compout	nds? 🗌 Yes 🛛	⊠ No	
Layers:	⊠ Single-phase		☐ Multi-phase			
Container Type:	☐ Drum		Tote	☑ Truck		Other (explain)
Container Size:				4000 gal		· - ·
						
_			F			***
Frequency:	☐ Weekly	Ш	2.202.02.	✓ Quarterly		Yearly
Number of Units (cor	ntainers): <u>1</u>		Other:			
			Product			
Proper U.S. DOT Shi	ipping Name:		Sodium Hydroxide	Solution		
-						RO: 1000lb
Class: 8	UN/NA	7:	UN1824	PG: II		RQ: 1000lb

Flash Point	pН	N/A	N/A	Solids
<u>NA</u>	14			<u>1-2</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>O</u> mg/l	<u>O</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	40-50	%
Water	40-50-50-60	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. CORROSIVE MATERIAL! Wear rubber gloves, rubber apron, safety goggles or full face shield, protective clothing

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

SECTION 7: Incompatibilities

Please list all	incompatibilities	(if	any):
-----------------	-------------------	-----	-------

see MSDS

acid, metals such as aluminum, zinc, tin, etc, chromium, brass, bronze, copper, lead. other alkali sensitive metals or alloys, organic materials, ortanic nitro compounds, chlorinated hydrocarbons, fluorinated hydrocarbons, acetaldehyde, chlorine trifluoride, hydroquinone, maleic anhydride, tetrahydrofuran, acrolein, phosphorous, trichloroethylene, leather, woll, phosphorous pentoxide, halogenated compounds, glycols, explosives, acrylonitrite, 1,2 dichloroethylene, tetrachloroethane, organic perxoides, sodium tetrahydroborate, food sugars

The information contained herein is based on 🖂 generator knowledge and/or 🗌 analytical data. I hereby certify that the above and

SECTION 8: Material Producer's Certification

	knowledge and ability to determine that no deliberate or willful suspected hazards have been disclosed. I certify that the materials at.
Authorized Signature:	Date:
Printed Name/Title: None Needed - Product	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Collumbility A	
Date: 2-15-08 Approved Rejected	
Approval Number: 2614	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	None
_	
8.	Management for Product Recovered/Recycled (if applicable);
	Settle product in tank. Pump out all BUT 500 gallons off the BOTTOM and deliever to customer as 50% caustic product.
	The last 500 gallons will be titrated down to a 10% solution and filter pressed. Once pressed, mix with spent caustic.



CAUSTIC SODA LIQUID 50%

MSD5 ID: AL0060 Revised: 10-06-2005 Replaces: 05-05-2005

1. PHODUCT AND COMPANY IDENTIFICATION

Product Name:

CAUSTIC SODA LIQUID 50%

MSDS ID:

AL0050

SYNONYMS:

Lye; Sodjum Hydroxide Solution; Alkali; Caustic; Sodium Hydrate

CAS Number:

1310-73-2 Alkali

Chemical Family:

Formula:

50% NaOH

DISTRIBUTED BY: Hydrite Chemical Co. 300 N. Patrick Blvd. Brookfield, WI 53006-0948 (262) 782-1450

EMERGENCY RESPONSE NUMBERS: 24 Hour Emergency #: (414) 277-1311 CHEMTREC Emergency #: (800) 424-9300

MANUFACTURED BY: Occidental Chemical; PPG Industries; Olim Chlor Alkali; Vulcan Chemical; K.A. Steel Chamicals: Old World Industries: Basic Chemical Solutions: Pioneer

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGERI CORROSIVE. Causes savere burns to eyes, skin, and respiratory tract. Not flammable, but reacts with most metals to form explosive/flammable hydrogen gas. Harmful or fatal if swallowed. May be harmful or fatal if inhaled, DANGER! May react violently with water.

Physical State: Liquid.

Color:

Clear to slightly turbid. Coloriess to slightly colored.

Odor:

No ador.

POTENTIAL HEALTH SFFECTS

Aoutes Of Exposure: Eyes, Skin., Inhelation, Ingestion.

Target Organa: Eyes. Skin, Respiratory System.

Eye Contact: CORROSIVE-Causes severe irritation and burns. Small amounts may cause: permanent eye damage, blindness, comeal damage. Mist may cause; irritation, High mist concentrations may cause; tissue destruction. Effects may vary depending on length of exposure, adulton concentration and first aid measures.

Skin Contact; COFROSIVE-Causes severe imitation and burns. Corresive action causes burns and frequently deep ulceration with ultimate scarring. Note that irritation may follow an initial latency. The latency may vary as much as hours for dilute solutions to minutes for more concentrated solutions. Prolonged contact, even with dilute concentrations, can cause itssue destruction and permanent skin damage. Dust or mist from solutions can cause Irritant dermatitis. Repeated exposure may cause: dermatitis (inflemmation of the skin).

Skin Absorption: No absorption hazard expected under normal use.



Page: 1 of 7

CAUSTIC SODA LIQUID 50%

MSDS ID: AL0050 Revised: 10-06-2005 Replaces: 06-05-2005

Inhaintion: CORROSIVE-Causes severe irritation and burns, Dusts or mists may irritate; nose, mouth, throat, respiratory tract. Dusts or mists may cause damage to the; upper respiratory tract, lungs. May cause; coughing, sneezing, running nose, sore throat, shortness of breath, wheezing, tightness of the chest, chest pain, choking, impaired lung function, pneumonilis, pulmonary edema.

Ingestion: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth, throat, stomach, gastrointestinal tract, ingestion can cause severa burns and complete tissue perforation of the mucous membranes of the mouth, throat and stomach, May be fatal if swallowed. May cause: abdominal pain. nauses. vomiting, diarrhea, bleeding, fall in blood pressure, shook, collapse, gastrointestinal ulceration. Damage may appear days after exposure.

Medical Conditions Aggravated By Exposure To Product: Skin disorders. Lung disorders. Cardiovascular disorders. Eye disorders, Respiratory system disorders.

Other: None known.

Cancer information: This product does not contain greater than 0.1% of the known or potential cardinogens listed in NTP, IARO, or OSHA.

Potential Environmental Effects: See Section 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Sodium Hydroxide Water

CAS Number 1310-79-2 7732-18-5 OSHA Hezard YES NO % by Wt. 40 - 50 % 40 - 50 %

4. FIRST-AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Washing eyes within several seconds is essential to achieve maximum effectiveness. Do not attempt to neutralize with chemical agents. Otta or cintments should not be used at this time.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. If skin feels elippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing skin until elick feeling is gone. Do not apply oils or oliments unless ordered by the physician, Discard footwear which cannot be decontaminated. Olscard contaminated leather articles such as shoes and belt.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen, if not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure.

ingestion: If fully conscious, drink a quart of water, DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY, if unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious viotim. If vomiting occurs apontaneously, keep head below

Page: 2 of 7

CAUSTIC SODA LIQUID 50%

MSDS ID: AL0050 Revised: 10-06-2005 Repieces: 05-05-2005

hips to prevent aspiration of liquid into the lungs. If vorniting occurs spontaneously, keep airway clear and give more water.

Note to Physicians: The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not combustible, For tires in area use appropriate media. For example: Water spray. Dry chemical. Carbon cloxide. Foam.

Fire Fighting Methods: Evecuals area of unprotected personnel. Wear protective clothing including NIOSH-Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers, but avoid getting water into containers. Product generales heat upon addition of water, with possible spatiering, Run-off from fire control may cause pollution.

Fire And Explosion Hazards; Product may react with some metals (ex.: Aluminum, Zino, Tin, etc.) to release fiammable hydrogen gas



Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL. Evecuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective aquipment recommendations found in Section 6. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Neutralize remaining residue with dilute Hydrochlorio Acid solution and dispose of properly. Flush remaining area with water to remove trace residue and dispose of properly. Avoid diseat discharge to sewers and surface waters. Notify authorities if entry occurs. CAUTION: This product may react violently with acids and water.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not awallow. Avoid breathing vapors, miets, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. CORROSIVE MATERIAL. Avoid dust or mist formation. Add product very slowly while stirring constantly. If product is added too rapidly or without stirring and becomes concentrated at the bottom of the mixing vessel, excessive heat may be generated resulting in dangerous boiling and spattering and possible immediate violent truption of highly caustic solution.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat, Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Highly corrosive to most metals with evolution of hydrogen gas. Do not freeze. Do not expose sealed containers to temperatures above 104 Deg. F. Deadly carbon monoxide gas can form in enclosed or provily ventilated stess or tanks when alkaline products contact food, beverage, or dairy products. Do not enter such areas until they have been well ventilated and curbon monoxide and oxygen levels



Page: 3 of 7

CAUSTIC SODA LIQUID 50%

MSDS ID: ALCOSO Revisad: 10-06-2005 Replaces: 05-05-2006

have been determined to be within OSHA acceptable limits. If carpon monoxide and oxygen levels cannot be measured, wear NIOSH-approved, self-contained breathing apparatus, *** ANSI/NISF Standard 60 Maximum Use Level = 100 mg/L ***

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Component

Sodium Hydroxide

OSHA PEL 2 mg/m3

OSHA STEL/C Not Estab. C

. மான வண்ணும் வால் வருண்டு நாக்கார். நாக்கார் இன்ற வருண்டு வருண்டு வருண்டு இருந்தின் நாரண் வருண்டு இருக்கு இருக்க

ACGIHTWA Not Estab.

ACGIH STEL/C C 2 mg/m3

\Mater

Not Estab. Not Estab. 2 ma/m3+ Not Estab.

Not Estab.

Not Estab.

Note: C = Denotes Celling Limit. + Vacated 1989 OSHA PEL(s).

Engineering Controls: General room ventiletion is required. To keep exposure below established limits, local exhaust may be necessary. Avoid preating dust or mist, Maintain adequate ventilation. Do not use in glosed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly. NOTE: Where carbon monoxide may be generated, special ventilation may be required.

Eye/Face Protection: Wear chemical safety goggles and a full face shield while handling this product. Do not wear contact lenses.



Skin Protection: Prevent contact with this product, West gloves and protective cicthing depending on condition of use. Protective gloves: Natural nubber. Butyl nubber, Neoprene. Nitrite. Polyvinyl chloride. Polyethylene.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. If exposure limits are exceeded, wear: NIOSH-Approved respirator for dusts and mists. NIOSH-Approved Supplied Air Respirator (SAR). NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z85.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Rubber boots. Protective ciothing.

General Hyglene Conditions: Wash with soap end water before meal times and at the end of each work shirt. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Clear to slightly turbid. Colorless to slightly colored.

Odoř: No odor.

Bolling Point (deg. F): -284-293 Freezing Point (deg. F): -60-58 Malting Point (deg. F): -50-58

Vapor Pressure (mm Hg): -1-1.5 @ 200

Vapor Density (air=1): N.D.

Page: 4 of 7

CAUSTIC SODA LIQUID 50%

MSDS ID: ALODSO Revised: 10-06-2005 Replaces: 05-05-2005

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: Extensive data, oall for information.

Chemical Fate information: Extensive data, call for information.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D002

Disposal Mathod: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. If approved, neutralize material and flush to sewer. DO NOT preseurize, cut, weld, editor, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Proper Shipping Name:

Sodium Hydroxide, Solution

Hazard Clase:

Identification Number:

UN1824

Packing Group:

IJ

Label Required:

CORROSIVE

Reportable Quantity (RQ): 1000# (Sodium Hydroxide).

16. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA inventory Status: All components of this product are on the TSCA inventory or are exempt from TSCA inventory regularments.

SARA Title III Section 311/312 Category:

Immediate (Acute) Health Hezard: Y

Delayed (Chronic) Health Hazard; N

Fire Hezard: N

Sudden Refease Of Pressure Hazard: N

Reactive Hazard: Y

SARA Section 302/304/313/HAP:

Component

Sodium Hydroxide

Water

CERCLARQ

SARA RQ

SAHA TPQ

U.S. HAP NO

1000 N.A.

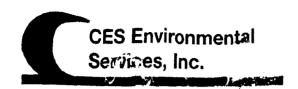
N.A. N.A. N.A. N.A.

NO NO

NO



Fage: 6 of 7



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Maste Pre-Acceptance/Approval Letter

Date 2/13/2008

Dear

Gary Valdez

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2615

Expiration Date 2/12/2010

Generator: GSF Energy, LLC

Address:

9416 Ley Rd

Houston, TX 77078

Waste Information

Name of Waste: Non-hazardous oil and soil

TCEO Waste Code #: 00136031

Container Type:

Detailed Description of Process Generating Waste:

Cleanup of oil and soil from sumps around processing equipment

Color: varies

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

5 p

OR NJ Sampling - losking notes

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator information GSF Energy, LLC Company: Address: 9416 Ley Road City, State, Zip: Houston, TX 77078 Gary Valdez Contact: Title: Plant Supervisor (713) 633-9320 Phone No: Fax No: 7.13.635-1935 24/hr Phone: (713) 633-9320 U.S. EPA LD. No: N/A State LD. 72146 SIC Code: SECTION 2: Billing Information - Same as Above Company: Address: City, State, Zip: Contact: Title: Phone No: Fax No: SECTION 3: General Description of the Waste Name of Waste: Non Hazardous Oil and Soil Detailed Description of Process Generating Waste: Cleanup of oil and soil from sumps around processing equipment Powder Physical State: 🛛 Liguid ☐ Sludge ☐ Filter Cake Solid Combination Color: Varies Odor: Hydrocarbon Specific Gravity (water=1): N/A Density: N/A lbs/gal Single-phase Multi-phase Layers: Container Type: Drum ☐ Tote Other (explain) Truck Container Size: <u>55</u> Weekly ☐ Monthly \boxtimes Frequency: Quarterly Yearly Number of Units (containers): 4 Other: _ Texas State Waste Code No: 00136031 Proper U.S. DOT Shipping Name: Non DOT regulated TPH Contaminated Soil UN/NA: RO: Class: Na PG: Na -Flash Point pH Reactive Sulfides Reactive Cyanides Solids >200 N/A N/Amg/I N/Amg/I 85-100% Oil&Grease TOC Nickel Zinc Copper N/Amg/I N/Ame/I NAme/ N/Amg/I N/Amg/

4 = 1.

FEB-04-2008 16:39

LED ENVIRONMENTAL DVCs.

SECTION 4: Physical and Chemical Data

	ભેવાઇકાલકો <u>ભિલ્લાન</u> ભાગમાં માટે છે.	<u> </u>	Units
	The waste consists of the following materials	Ranges are acceptable	or %
Dirt		80-90	%
Oil		1-10	%
Water		1-10	%

1-10	%
1-10	%
ctive equipment, piesse expisia.	
and the second second second	

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None Analytical SECTION 7: Incompatibilities

Please list all incompatibilities (if any): None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity:	TCLP Benzene Below Regulatory Limits
Corresivity: Ignitability:	

SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🖾 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

tested are representative of all materials described by this document	t. Date: <u>September 30, 2005</u>	
Printed Name/Title: Gary Valez, Plant Supervisor	g 1941 Samuranga menganan	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Compliance Officer: Compliance Officer: Approved Rejected Approval Number: 2615	Additional Information:	The second of th

71	36	35	79	35
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p.8

Feb 11 08 12:39p McCarty Road GSF Energy
FEB-04-2008 16:39 CES Environmental SVCS.

SECT!	ION 10: Waste Receipt Classification	o Uoder 40 CFR 437				
Is this	material a wastewater or wastewater sl	udge? 🗌 YES	В мо			
If 'Yes	', complete this section.					
PLEAS	SE CHECK THE APPROPRIATE BO	OX. IF NO APPROPI	NATE CATEG	ORY, GO TO THE	E NEXT PAGE.	
<u>Metals St</u>	ubcategory: Subpart A					
Me Chi	ent electroplating baths and/or sludges stal finishing rinse water and sludges romate wastes pollution control blow down water arent anodizing solutions incration wastewaters aste liquid mercury anide-containing wastes greater than 1 aste acids and bases with or without meaning, rinsing, and surface preparation wastery deburring wastewater railine and acid solutions used to clean	nd sludges 36 mg/l etals a solutions from electro		phating operations	.	•
Oils Subc	<u>ategory</u> : Subpart B					
Oil- Lub Coo Con Use Oil Bilg Ring Inte	ed oils -water emulsions or mixtures oricants clamical solutions defined groundwater clean-up from defined petroleum products spill clean-up ge water se/wash waters from petroleum source receptor wastes -specification fuels lerground storage remediation waste k clean-out from petroleum or oily solu- contact used glycols lecus and oil mixtures from parts clean tewater from oil bearing paint washes	es urces ning operations				
Land Cont	Subcategory: Subpart C ifill leachate taminated groundwater clean-up from	non-petroleum source	es			
Off-: Still Bypr Wast Wast Wast	ent-bearing wastes specification organic product bottoms roduct waste glycol tewater from paint washes tewater from adhesives and/or epoxie tewater from organic chemical product tekan-out from organic, non-petrolet	et operations				
	er en	en e	e de de la companya d		ing the second s	The state of the s
					ng day.	### (* 1
	7574A	3				

Feb 11 08 12:40	Op McCarty	Road GSF Energy		7136357935	p.11
FEB-04-20	UB 15:4U	CES Environmentai	oves.	してい に ありのひひ ス	

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chrabove any of the values listed above, the waste should be classified in the organics subcategory.	omium, copper,	σι
	Metals Subcategory		

Organics Subcategory

Oils Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

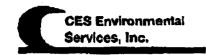
-

A CONTRACTOR



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	Base Pricing (including freight):		
	\$55/dm Trans \$69/hr plus FSC		
2.	Contamination Limits (maximum limit before surcharges apply):		
	None		
3 <i>.</i>	Surcharge Pricing:		
	NA .		
ı			
Į			
4.	Special Testing Requirements:		
4. 		0% dirt. The	ne other
4.	No The material in these drums should be at least 8 constituents should be ciland water this confor	0% dirt. The mance to the sample from	ne other this
4.	No The material in these drums should be at least 8 constituents should be ciland water this confor	0% dirt. The mance to the sample from the drum.	ne other this on the
		0% dirt. The mance to the sample from the drum.	ne other this on the
	No The material in these drums should be at least 8 constituents should be ciland water. This confor composition can be made by just looking at the drum and by how for the sampling tube goes into	0% dirt. The mance to the sample from the drum.	ne other this in the
	Nor The material in these drums should be at least 8 constituents should be ciland water. This confor composition can be made by just looking at the drum and by how for the sampling tube goes into Treatment and Handling Protocol:	0% dirt. The mance to the sample from the drum.	ne other this in the
	No The material in these drums should be at least 8 constituents should be ciland water. This confor composition can be made by just looking at the drum and by how for the sampling tube goes into Treatment and Handling Protocol: Put in Clas I Solids or Sludge Box for Landfill	0% dirt. The mance to the sample from the drum.	ne other this in the
5.	No The material in these drums should be at least 8 constituents should be ciland water. This confor composition can be made by just looking at the drum and by how for the sampling tube goes into Treatment and Handling Protocol: Put in Clas I Solids or Sludge Box for Landfill	0% dirt. The mance to the sample from the drum.	, The



7.	Tests for Product Recovered/Recycled (if apolicable):
	Na
į	
Į	
8.	Management for Product Recovered/Recycled (if applicable);
	Na
- 1	
- 1	



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

62831.01

1of 1

Customer: CES Env. Svcs.

Sample ID: Soil & Oil 0108-48

Environ ID: 62831.01

Project ID:

Sampled:

Project Loc:

Matrix: Soil

Received: 01-22-08

Charge/P.O.:

Reported: 01-30-08

Type: Grab

			HECEIVED B	4919					
ANALYTE /	F	ESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER	<u> </u>			LIMIT		METHOD	BY		<u> </u>
BENZENE TCLP									
Benzene	<	0.001	mg/l		0.001	SW846.8021B	DMB	01-24-08	12:49
RCI			ł			1		l]
Reactive Cyanide	<	50	mg/kg	250	50	EPA SW846.7.3	OLC	01-24-08	09:45
Reactive Sulfide	<	50	mg/kg	500	50	EPA SW846.7.3	OLC	01-24-08	09:50
Corrosivity (pH)	ł	6.86	su	=>2; =<12.5		SW846.9045C	LC	01-24-08	09:30
Ignitability	>	160	°F	> 140		SW846.1010M	LC	01-30-08	06:08
METALS (RCRA) - TCLF				1		SW846.1311	MN	01-22-08	
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	01-23-08	18:30
Barium		2.16	mg/l	100	0.02	SW846.6010B	JA	01-23-08	18:30
Cadmium	<	0.02	mg/l	1.00	. 0.02	SW846.6010B	JA	01-23-08	18:30
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	01-23-08	18:30
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	01-23-08	18:30
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JA	01-23-08	18:30
Silver	<	0.05	mg/l	5.00	0.05	SW846.6010B	AL	01-23-08	18:30
Mercury	٧	0.002	mg/l	0.200	0.002	SW846.7470A	MN	01-23-08	10:50

Definitions:

TCLP - Toxclsity Charasteric Leaching Proced TPH - Total petroleum Hydrocarbons

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller, Ph.D **Laboratory Director**

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/8021B	MATRIX:	LEACHATE

ANALYST:					
				INO.SAMPLES:	20
IANALYST:	dmb	IUNITS:	mg/l		20

SAMPLES:	62809-01	62811-01	62811-02	62811-03	62811-04	62818-01	62818-02	62818-03
	62818-04	62830-01	62830-02	62830-03	62831-01	62831-02	62835-01	62835-02
	62843-01	62844-01	62844-02	62845-01				

MATRIX	MATRIX	SPIKE	MS	MS	MSD	RPD	CCV	MB	QC LIMITS (%)	
62830-01	RESULTS	ADDED	RESULTS	REC	REC		REC		REC-RANGE	RPD
BENZENE	0	100	89	89	88	0	93	0	60 - 120	20
TOLUENE	0	100	.91	91	91	0	91	0	60 - 120	20
Et-BENZENE	0	100	89	89	86	3	93	0	60 - 120	20
XYLENES	0	300	283	94	93	2	94	0	60 - 120	20
MTBE	0	100	116	116	107	8	110	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)

Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent

Lab.Dir./QA-QC Mgr.

1/30/08

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS		METHOD: EPA SW846/6010				MATRIX: LIQUID		
ANALYST:	JA	DATE:	01.23.08	JUNITS:	PPM (mg/l)	NO.SAMPLES:	13	
SAMPLES:	62830.01	62830.02	62830.03	62832.01	62820.01	62822.01	62822.02	62779.01	
GAIVII LLO.	62826.01	62828.01	62829.01	62831.01	62831.02	U2022.01	02022.02	02773.011	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	BATCH ID:	62830.01

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	/iTS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	4.51	90	102	12	99	0	75 - 125	20
Barlum	0.00	5	4.44	69	99	11	101	0	75 - 125	20
Cadmium	0.00	5	4.20	84	95	13	103	0	75 - 125	20
Chromium	0.00	5	4.30	86	96	11	100	0	75 - 125	20
Lead	0.00	5	4.26	85	95	11	101	0	75 - 125	20
Selenium	0.00	5	4.88	98	109	11	101	0	75 - 125	20
Silver	0.00	5	4.08	82	93 -	13	102	0	75 - 125	20

JOHN KELLER, Ph.D.
Laboratory Director

NEW Y

ENVIRON EXPRESS QUALITY CONTROL REPORT

ł	ANALYSIS:	MERCURY	METHOD: EP	4 SW846/7471A	MATRIX:	LIQUID

			01-23-08	IUNITS:		INO.SAMPLES:	
ANALYSTS	: MN	IDATE:			mg/i		
						HACKSHIVE CCS.	

SAMPLES:	62820.01	62822.01	62822.02	62826.01	62828.01	62829.01	62830.01	62830.02
1	62830.03	62831,01	62831.02	62832.01				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

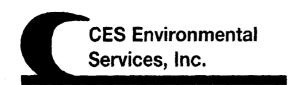
SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METH.	CORR.	QCLI	MITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF.	RECOV.	DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1	60 - 120	20

OHN KELLER, Ph.D Laboratory Director

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401 North 11th. S	ESS LABORATORIES, INC. St. / La Porte, Texas 77571-31	115 .	City .		State:		Zip:		City:	llo	UST	0	,		State:	18	<u> </u>	Zip:	าย	Received on Yes		Sample	s Inlact	17 🚛 🔻
(281) 471-0951 / Fax: (281) 471-58	(800) 880-0156 821 / After Hours: (281) 844-2	308 F	Phone:						Phone Fax:	1/7	131	676	, - / - / (,	46	0					Cooler Terry). (°C)	Present Yes	vative S	
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Project Name:	Evergy.	Sampler	Remarks:	² Cntr.		G				_			_	\neg						/Yes)	No	Yes	No	(NA)
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EEL!LISE ONLY (LAB NO.)	SAMPLE ID.		DATE/TIME SAMPLED	MATRIX	COMP/GRAB	BTEX (8021)	TPH (TX1005)	MTBE	PAH	VOLATILES	SEMI-VOLS	RCRA N	19	tap	8		,					:		e de
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	S:Soil W:Water WW:Waste W			SE:Sec	liment	L: Le	Machate	atrix Wi:	Key Wipe	OR:	organi	c OL	.:Oil [OS:Dr	um S	olid [DL:D	rum Lic	piul	O:Other				F: 1:
	² Container P:Plastic G:Glass V:VOA Glas									1:10	æ(<4°	c) 2:	HCL :	3:H2S	04 4			rvati NaOH		(ey aOH+Z⊓ Ac∈	tate 7:Na:	2S2O3 8:	:None	1:

Evala 3616 2616



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/15/2008

Dear Ron Toombs

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2616

Expiration Date 2/15/2010

Generator: Evalca Company of America **Address:** 11500 Bay Area Boulevard

Pasadena, TX 77507

Waste Information

Name of Waste: Methanol

TCEQ Waste Code #: 0006605H

Container Type:

Detailed Description of Process Generating Waste:

Methanol and water and line flush with Ethylene vinyl alcohol copolymer (EVOH) from plastics processing

Color: clear colorless mobile 1 Odor: mild alcochol odor pH: 3-12

Physical State:

Incompatibilities: see msds

Safety Related Data/Special Handling:

wear heat protective gloves and clothing if there is a potential of contact with heated materials. Wear safety glases

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. DR OK Ep Sen 4+8:

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	ator Information			
Company:	Evalca Company of An	nerica		
Address:	11500 Bay Area Blvd			
City, State, Zip:	Pasadena, TX 77507			
Contact:	Ron Toombs		Title:	Production Supervisor
Phone No:	(281) 474-1512		Fax No:	(281) 474-1555
24/hr Phone:	(281) 434-9896			
U.S. EPA I.D. No:	TXD981148059			^
State I.D.	32728		SIC Code:	NA .
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🔀 Same	e as Above		
Contact:		Title:		
Phone No:		Fax No:		
		A 42 110.		
SECTION 3: Genera	al Description of the Wa	<u>ste</u>		
Name of Waste: Met Detailed Description		Waste: Methanol and wa	ter and line flus	sh with evoh from plastics processing
Physical State:	☑ Liquid☐ Solid	Sludge Filter Cake	Powder Combination	1
Color: Clear, Colorles	s Mobile Odor	: Mild Alcohol odor		
Specific Gravity (wat	er=1): <u>.792</u>	Density: 6.63 lbs/gal		
Does this material co	ntain any total phenolic	compounds? Yes	⊠ No	
Does this material co	ntain any para substitut	ed phenolic compounds	? 🗌 Yes 🛛] No
Layers:	Single-phase	Multi-phase		
Container Type: Container Size:	Drum	Tote 🖂	Truck <u>5500 g</u>	Other (explain)
Frequency: Number of Units (con Texas State Waste Co	· -	Monthly Other: 5H (for Recycle) D001,	Quarterly U154	☐ Yearly
Proper U.S. DOT Shi	pping Name:	BO,UN 1230, Methano	ol, 3, PG II	
Class: 3	UN/NA:	UN1230	PG: ll	RO: 5000 lbs

54 F	3-12	Omg/l	Zmg.	tive Cyanigo	5011d		
Oil&Grease	TOC	Zinc	Copper	****	Nickel		.ne/t
Oalg/I	Omg/I	Qing/l	Omg/l		Omg/l	and the second register of	
		The Control of the Co	سدند نده بتندر بنتندرس			1 p. 14 majoritistics 1	A consequence of
SECTION 4: Physi	ical and Chemical	Date		27.40	**		
		NTS TABLE			entration	Units	
	waste consists of	the following materials			re acceptable	or %	
Methanol				50-60		%	
Water	2 5			30 40	18-40	%	
EVOH				2-10		0/0	
	en e						
SECTION 5: Safety	Related Data						
		the use of special protectiv				1	
Mear Dear protective	gloves and clothin	ig iff there is a potential of co	ontact with ne	oted material	. Wear safety p	lasses as we	11.
SECTION 6: Attac	 hed Supporting N	Meumants					
				4.1 .			
List all documents, i <u>Methanol MSDS and</u>		r analysis attached to this l	lorm as part	of the waste	ipprovat packa	ge.	
MENISHOI MISDS FILL	EVUH MISUS				•		
SECTION 7: Incom	nnatibilitles						
Please list all incomponents	patibilities (if any):					
none See NSD		e Documentation					
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>							
Laboratory analysis generator knowledg		s wasto characteristica, liste	ed below, WA	s not per	FORMED base	ed upon the	following
TCLP Metals:	¥	,					
TCLP Volatiles:	<u>x</u>	•					
FCLP Semi-Volatile							
Reactivity:	<u>x</u>						
Corrosivity:	<u>x</u>						
gnitability:	x						
SECTION 9: Gener	ator's Certificati	on /					
The information cont	Bined herein is but is complete and a	sed on generator knowle accurate to the best of my	knowledge at	nd ability to	determine that i	no deliberat	e or willfi
missions of composessed are representati	ition properties ex ive of all praterials	dist and that all known or su described by his document.	ispected haza				ne materia
Authorized Signatus	re: Xon	Toombra		Date	2/14/0	8	
FRUIDEISER SISINSTRI		/ / \	5	11500			
•	RON 7	combs / Day	5upen				
Printed Name/Title:			Super				
Printed Name/Title:			Эщен				
Printed Name/Title: CES USE ONLY (DO NO Compliance Officer: Date: 2-15-08	Politien THIS		Эщен				

2

TOTAL P.03

2814741555

05/14/5008 14:01

SECTION 10: Waste Receipt Classification Under 40 CFR 437 ⋈ NO Is this material a wastewater or wastewater sludge? \(\square\) YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the v	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

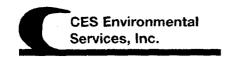
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.40/ gallon, \$395 per load, 20% FSC \$175 per washout.
2.	Contamination Limits (maximum limit before surcharges apply):
	4% solids
3.	Surcharge Pricing:
	.01/gal over 4% Soleds
4.	Special Testing Requirements: The Prior to recycle processing have a lab deishillation run to establish the distillation recovery percentages and granting parameters.
5.	Treatment and Handling Protocol:
6.	Treated Wastewater Discharge Subcategory:
i	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

resis for a founct Reci	overed/Recycled (if applicable):		
Management for Prod	uct Recovered/Recycled (if applica	<u>ıble);</u>	
See #4.			
See # 4.			
See # 4.			
See # 4.			



Product name:

Methanol

MSDS number: Material number:

56 40500001

Published date:

07/23/2002

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product:

Methanoi

MSDS number:

56

Material number:

40500001

Synonyms:

Methyl alcohol; Carbinol; Monohydroxymethane; Methyl hydroxide.

Celanese Ltd.

1601 W. LBJ Freeway P.O. Box 819005 Dallas, TX 75381-9005 United States 972 443 4000

Celanese Canada, Inc.

P.O. Box 99 Station Main Edmonton, Alberta, Canada T5J 2H7 780 471 0425

Transportation emergency phone numbers:

In USA, call 800 424 9300
Outside USA, call 703 527 3887, collect calls accepted In Canada, call 780 477 8339.

Product Use:

Intermediate for Methyl t-butyl ether (MTBE), Formaldehyde, Acetic acid, acetate ester solvents, chloromethanes, Methyl methacrylate, antifreeze applications (including windshield washer fluid), Dimethyl terephthalate, methylamines; miscellaneous, including intermediate for methyl glycol ethers and fuel uses.

2. Composition / Information on Ingredients

Component & CAS Number	Weight %	OSHA hazard category:
METHANOL 67-56-1	99.5 - 99.85	Hazardous

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887

Outside USA, collect calls accepted, 24 hrs/day

800 835 5235 Celanese, 24 hrs/day

Page 1 of 14



Product name: MSDS number:

Methanol 56

Material number: Published date:

40500001 07/23/2002

Ingestion:

May be fatal is swallowed. Symptoms of exposure may include: A small amount of Methanol (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if

treatment is not received.

Reproductive: May cause adverse reproductive effects based on animal data.

Carcinogenic: No evidence of carcinogenicity.

Mutagenic:

Does not show mutatgenic potential in most in vitro tests.

Teratogenic:

May cause birth defects based on animal data.

Target Organ Effects:

Overexposure (prolonged or repeated exposure) may cause:

Central nervous system depression

Injury to the eyes Drying of the skin

Local irritation at the site of exposure

Medical Conditions which may be Aggravated by Exposure:

Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:

Skin

Eves

Central nervous system

Digestive tract

For further information, see:

Section 4 - First Aid Measures

Section 5 - Fire Fighting Measures

Section 6 - Accidental Release Measures

Section 8 - Exposure Controls/Personal Protection

Section 9 - Physical and Chemical Properties

Section 10 - Stability and Reactivity

4. First Aid Measures

Skin:

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887

Outside USA, collect calls accepted, 24 hrs/day Celanese, 24 hrs/day

800 835 5235

Page 3 of 14



Product name:	Methanol	_
MSDS number:	56	
Material number:	40500001	
Published date:	07/23/2002	

of combustion exists, wear full fire fighting turnout gear and NIOSH approved selfcontained breathing apparatus. Oxidizing chemicals may accelerate the burning rate in a fire situation. Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback.

6. Accidental Release Measures

Spill or Leak Instructions

Eliminate ignition sources. See Section 8 for appropriate personal protective equipment. Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Water fog stream may reduce vapors. If fire potential exists, blanket spill with alcohol type aqueous film-forming foam or use water fog stream to disperse vapors. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Within the United States, call the National Response Center (800-424-8802) and appropriate state and local authorities if the quantity released over 24 hours is equal to or greater than the reportable quantity listed below: 5,000 lbs. of the material as is, based on a Reportable Quantity of 5,000 lbs. for methanol.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck in involved in fire. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapors or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases.

7. Handling and Storage

Handling:

Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling must conform to requirements of National Electric Code (Article 500 and 501) for hazardous location.

Storage:

Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor.

Do not store with incompatible materials. See Section 10. Stability and Reactivity.

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887 Outside USA, collect calls accepted, 24 hrs/day

Celanese, 24 hrs/day

800 835 5235 Celane Page 5 of 14



 Product name:
 Methanol

 MSDS number:
 56

 Material number:
 40500001

 Published date:
 07/23/2002

Component & CAS Number				ACGIH CEILING	OSHA TWA		OSHA CEILING
METHANOL 67-56-1	99.5 - 99.85	200 PPM	250 PPM	-	200 PPM	-	-

Component & CAS Number	Weight %	1990 NIOSH IDLH (Recognized by OSHA)	1994 NIOSH IDLH
METHANOL 67-56-1	99.5 - 99.85	25,000 PPM	6000 PPM

9. Physical and Chemical Properties

Appearance:

Clear, colorless mobile liquid.

Odor:

Mild alcohol odor.

Vapor Pressure:

127 mm Hg @ 25 deg C

Vapor Density (Air=1 @ 20 C):

1.11

Boiling Point (760 mmHgA):

64.7 C (148.5 F)

Freezing Point: Specific Gravity: - 97.8 C (- 144 F) 0.792 at 20 deg C

Molecular Weight:

32.04

10. Stability and Reactivity

Stability:

Stable.

Conditions to Avoid:

Avoid heat, flames, sparks, and other sources of ignition.

Incompatibility:

Keep away from sulfuric and other strong inorganic acids, aluminum or lead (including equipment made of these metals), and oxidizing agents such as

peroxides, nitric acid, perchloric acid or chromium trioxide.

Hazardous combustion or lecomposition products: Thermal decomposition products may include oxides of carbon.

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887 Outside USA, collect calls accepted, 24 hrs/day

800 835 5235 Celanese, 24 hrs/day

Page 7 of 14



Product name: Methanol MSDS number: 56 Material number: 40500001 Published date: 07/23/2002

METHANOL 67-56-1

99.5 - 99.85

Acute Exposure: Toxicity information on the solution is generally not available. Information on the solution components is listed next.

Oral LD50: 6.2-12.9g/kg (rats); practically nontoxic to animals. However, based on human exposure reports, a small amount (usually two or more lounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if treatment is not received.

Inhalation LC50: 64000ppm (rats,4 hrs.); practically nontoxic to animals. Based on human exposure reports, levels substantially above the TLV cause stupor, headache, nausea, dizziness, unconsciousness and may produce adverse effects on vision.

Skin: Irritating to rabbit skin. Severity depends on the quantity administered and exposure period and is related to the defatting properties of methanol; slightly toxic to animals (minimum lethal dose, monkeys: 1.6g/kg; LD50, rabbits:16g/kg). Based on human exposure reports, prolonged and repeated skin contact with methanol-soaked material has produced toxic effects including vision effects and death.

Eve: Severely irritating to rabbit eyes.

Mutagenicity: Methanol - Not genotoxic in most in vitro assays. Not genotoxic in vivo in mice exposed via inhalation up to 4000ppm (6hrs./day for 5 days) and subsequently examined for cytogenetic effects.

Carcinogenicity: Methanol - Inhalation-Not carcinogenic in lifetime linhalation studies (reported in limited detail) in rats and mice at concentrations of 10-1000ppm. Dermal-Not carcinogenic in mice exposed dermally to 0.02ml/day, 2 days/week over a lifetime in a study of limited quality.

Reproductive/Developmental Effects: Methanol - In an inhalation developmental toxicity study, rats were exposed 6hrs./day to 5000, 10000 or 20000ppm vapors. A significant teratogenic response was seen at 20000ppm. Fetotoxicity was noted at 10000ppm, but not at 5000ppm. In an inhalation developmental toxicity study, mice were exposed 7hrs./day to 2000, 5000 or 10000ppm vapors. Methanol caused developmental toxicity lat all levels. Oral administration of methanol via gavage at 1.3, 2.6 or 5.2 ml/kg to rats resulted in developmental toxicity at all levels.

Repeated Exposure: Methanol - Inhalation exposure (6hrs./day; Sdays/week) of monkeys to vapor concentrations of 500, 2000 or 5000ppm for 4 weeks did not result in any treatment-related effects. Monkeys exposed to methanol vapors of 10, 100 or 1000ppm for 22hrs./day for up to 2.5yrs. showed changes in the liver, kidney and nervous system at 1000ppm (limited details reported). Rats exposed by oral gavage to 100,

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

Outside USA, collect calls accepted, 24 hrs/day 703 527 3887 800 835 5235

Celanese, 24 hrs/day

Page 9 of 14



Product name: Methanol
MSDS number: 56
Material number: 40500001
Published date: 07/23/2002

Dispose of spilled material in accordance with state and local regulations for hazardous waste. Recommended methods are incineration or biological treatment at a federally or state-permitted disposal facility. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

EPA Hazardous Waste Code(s): U154

14. Transport Information

US Department of Transportation

Shipping name:

METHANOL

Hazard class:

3 (Flammable Liquid)

UN/NA Number:

UN1230

Packing Group:

П

DOT Reportable Quantity (RQ):

5000 lbs/2270 kg (Methanol)

Emergency Response Guide:

131

ICAO/IATA:

Proper Shipping Name:

METHANOL

Hazard Classification:

3 (Flammable Liquid)

IATA UN Number:

UN1230

Packing group:

(Flammable Liquid) (Toxic)

IMDG:

Label:

Proper Shipping Name:

METHANOL

'lazard Class:

3 (Flammable Liquid)

International Marine UN Number:

UN1230

Transportation emergency:

800 424 9300 703 527 3887 CHEMTREC, 24 hrs/day

Product emergency:

Outside USA, collect calls accepted, 24 hrs/day

800 835 5235 Celanese, 24 hrs/day

Page 11 of 14



Product name: Methanol
MSDS number: 56
Material number: 40500001
Published date: 07/23/2002

SARA 311:

Acute health: Yes Chronic health: Yes

Fire: Yes
Sudden release of pressure: No

Reactive:

.

INTERNATIONAL REGULATIONS

International chemical inventories:

Listed on the chemical inventories of the following countries or qualifies for an exemption: AUSTRALIA, CHINA, CANADA, EUROPE, KOREA, PHILIPPINES, JAPAN

No

Canadian Regulations:

WHMIS Classification:

Class B, Division 2. Class D, Division 2, Subdivision A; Division 2, Subdivision B.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. Other Information

Prepared by:

Product Stewardship Department

Celanese Ltd.

Hazard ratings

This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Health: 1 Flammability: 3 Reactivity: 0

HMIS: Health: 2 Flammability: 3 Reactivity: 0

Revisions:

The following sections have been revised since the last issue of this MSDS.

8. Exposure Controls / Personal Protection

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887 Outside USA, collect calls accepted, 24 hrs/day

800 835 5235 Celanese, 24 hrs/day

Page 13 of 14

Paste.

MATERIAL SAFETY DATA SHEET



1001 WARRENVILLE ROAD (SUITE 201)

LISLE, IL 60532-1301

630-719-4610 281-474-1524

(9am - 5pm CST)

(After 5pm)

EMERGENCY TELEPHONE

800-424-9300

(Chemtrec)

NUMBER:

EVAL 01

ISSUE DATE:

May 4, 2001

SUPERSEDES: April 27, 2001

Page: 1

SECTION I - IDENTIFICATION

PRODUCT NAMES:

C400A	C400D	LIVEV	EAGED	
C109A	C109B	E105A	E105B	
E151A	E151B	ES104B	ETC-133	
F100A	F100B	F101A	F101B	
F104A	F104B	G110A	G156A	
G156B	H101A	H101B	HU101B	
H171B	J102B	K102A	L101A	
L101B				

CHEMICAL PRODUCT:

Polymer compound

CHEMICAL NAME:

Ethylene-vinyl acetate-vinyl alcohol copolymer

CHEMICAL FORMULA:

(CH2-CH2)m-(CH2-CH)n-OH

CAS RN:

26221-27-2

SYNONYMS:

Ethylene vinyl alcohol copolymer, EVOH

This product is not hazardous as defined by the U. S. Occupational Safety and Health Administration (OSHA) under its Hazard Communication Standard (HCS), 29 C.F.R.§ 1910.1200.

This product is not hazardous as defined by the Canadian Labour Code under the Hazardous Products Act (HPA) and therefore is not subject to hazards reporting or labeling through the Workplace Hazardous Materials Information System (WHMIS).

	SECTION	V II - INGREDIEN	TS	
COMPOSITION	CAS NO.	NOMINAL %	PEL/TLV	HAZARD
Ethylene-vinyl acetate-vinyl alcohol copolymer	26221-27-2	>99	None	None Noted
SE	CTION III - HEA	LTH HAZARD IN	FORMATION	

INHALATION:

Fumes may be generated in operations using heated

polymer.

INGESTION:

Not known.

MATERIAL SAFETY DATA SHEET



1001 WARRENVILLE ROAD (SUITE 201)

LISLE, IL 60532-1301

630-719-4611

(9am - 5pm CST)

281-474-1524

(After 5pm)

EMERGENCY TELEPHONE

800-424-9300

(Chemtrec)

NUMBER:

EVAL 01 ISSUE DATE:

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EYE CONTACT:

Powder or finely ground dust could cause eye irritation.

SKIN CONTACT:

Molten or heated material can cause serious burns to

unprotected skin.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

Listed as a carcinogen by: [no] NTP [no] IARC [no] OSHA: If any ingredient is listed by one of the three agencies as a carcinogen a "y" or "yes" is placed

in the brackets; otherwise "n" or "no" is used.

PEL

(OSHA Permissible Exposure Limit): No OSHA PEL for this compound.

For nuisance dust: 15 mg/m³ (respirable) - 8 hour TWA.

TIV

(ACGIH Threshold Limit Value): No ACGIH TLV for this compound

nuisance dust: 10 mg/m³ - 8 hour TWA.

SECTION V - EMERGENCY FIRST AID PROCEDURES

FOR OVER EXPOSURE BY:

SWALLOWING:

Call a physician or the Poison Control Center immediately.

SKIN CONTACT:

Wash affected area with plenty of water.

INHALATION:

If overcome by finely ground or heated fumes, immediately

remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth to mouth. Get

medical attention immediately.

EYE CONTACT:

If finely ground dust gets in the eyes, immediately flush eyes

with plenty of cool water to remove particles from eyes.

MATERIAL SAFETY DATA SHEFT



1001 WARRENVILLE ROAD (SUITE 201)

LISLE, IL 60532-1301

(9am - 5pm CST) 630-719-4612

281-474-1524

(After 5pm)

EMERGENCY TELEPHONE

800-424-9300 (Chemtrec)

NUMBER:

EVAL 01

ISSUE DATE: May 4, 2001

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SECTION VI - PHYSICAL DATA

RESIN DENSITY:

1.14 - 1.20 g/cc

BULK DENSITY:

34 - 50 lbs./ft3

SUPER HEAT:

0.57 cal/g/°C

MELTING POINT:

157 - 191 °C

VAPOR PRESSURE:

Not applicable

HEAT OF COMBUSTION:

7,000 - 7900 cal/q

VAPOR DENSITY (AIR=1):

Not applicable

SOLUBILITY IN WATER:

Essentially none

APPEARANCE AND COLOR:

White to straw colored and colorless chip and

pellet, odorless.

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED:

550°F (288°C) Cleveland Open Cup

AUTO IGNITION TEMPERATURE:

Not applicable

FLAMMABLE LIMITS IN AIR, % BY VOLUME LOWER:

Not applicable

UPPER:

Not applicable

NFPA RATING:

HEALTH () FIRE () REACTIVITY ()

No NFPA rating (Does not apply to exposure hazards other

than a fire)

UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full faceplate when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. The application of high velocity water will spread the burning surface layer. Finely ground EVAL® powder particles in the atmosphere are combustible and may be explosive. EVAL® resins may generate static electrical charges when conveyed or poured in an extremely dry environment.

SECTION VIII - REACTIVITY

STABILITY:

Generally stable

HAZARDOUS POLYMERIZATION: Not likely

MATERIAL SAFETY DATA SHEET



1001 WARRENVILLE ROAD (SUITE 201)

LISLE, IL 60532-1301

630-719-4613 281-474-1524

(9am - 5pm CST) (After 5pm)

EMERGENCY TELEPHONE

800-424-9300

(Chemtrec)

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CONDITIONS AND MATERIALS TO AVOID: Extreme heat above 460°F (238°C)

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include Acetaldehyde, Crotonaldehyde, Acetone, Acetic Acid, Carbon Monoxide, Carbon Djoxide, Hydrocarbons, and other organic vapors.

SECTION IX - EMPLOYEE PROTECTION

CONTROL MEASURES: Provide adequate local exhaust ventilation to maintain air concentration of dust, fumes and vapors below acceptable exposure criteria (Sections II & IV). Provide adequate mechanical ventilation at the points of extrusion where polymer is at elevated temperatures coming from the extruder.

RESPIRATORY PROTECTION: Where exposure is likely to exceed acceptable criteria (Sections II & IV), use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant in air in accordance with OSHA 29 CFR§ 1910.134.

PROTECTIVE CLOTHING: Wear heat protective gloves and clothing if there is a potential contact with heated materials.

EYE PROTECTION: Wear safety glasses meeting the specifications of ANSI standard Z87.1 where no contact with eye is anticipated. Chemical safety goggles meeting ANSI standard Z87.1 should be worn if there is a possibility of eye contact.

SECTION X - ENVIRONMENTAL PROTECTION

ENVIRONMENTAL PRECAUTIONS: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill release response plan should be developed and implemented. If materials enters a water course or sewer, advise proper authorities of possible non-floating polymer.

SPILL OR LEAK PROCEDURES: Normal procedures for clean-up. Use good housekeeping practices. Wear appropriate respiratory protection and protective clothing as described in Section IX. Contain spilled material. Transfer to secure containers. In the event of an uncontrolled release of this material, the user should determine if the release of this material is reportable under applicable laws and regulations.

WASTE DISPOSAL: All recovered material should be disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA

1001 WARRENVILLE ROAD (SUITE 201)

LISLE, IL 60532-1301

630-719-4614 281-474-1524 (9am - 5pm CST)

(After 5pm)

EMERGENCY TELEPHONE

800-424-9300

(Chemtrec)

NUMBER:

EVAL 01

ISSUE DATE: May 4, 2001

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Page:

SECTION XI - REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:

DOT CLASSIFICATION:

Non-Regulated Commodity

DOT PROPER SHIPPING NAME: Not applicable

OTHER DOT INFORMATION:

Not applicable

OTHER REGULATORY REQUIREMENTS:

Toxic Substance Control Act (TSCA)

This product is listed in the TSCA Inventory of Chemical Substances as Ethylene-vinyl acetatevinyl alcohol copolymer.

The CAS RN Number is 26221-27-2.

Superfund Amendments and Reauthorization Act (SARA)

This material is not considered hazardous pursuant to Title III of SARA and is not considered subject to the annual reporting requirements specified by Section 312 and 313 of Title III of SARA and 40 CFR Part 372.

Coalition of Northeastern Governors (CONEG)

This product conforms to the CONEG regulations, indicating that the total weight of the heavy metals; lead, mercury, cadmium and hexavalent chromium in combined amounts is less than 100 ppm (by weight).

Ozone Depleting Chemicals (ODC)

Neither Freon nor other ozone depleting chemicals (ODC's) are used in manufacturing our EVAL® materials. Therefore, a warning label is not necessary to be on those products made of our EVAL® materials, as proposed by EPA under Federal Register (57 FR 19166) dated May 4. 1992.

The Safe Drinking Water and Toxic Enforcement Act of 1986 (California PROP 65)

This product does not contain, at any level, the substances on the Hazardous Chemical List under the California Safe Drinking Water and Toxic Enforcement Act of 1986(Prop 65).

MATERIAL SAFETY DATA SHEET



1001 WARRENVILLE ROAD (SUITE 201)

LISLE, IL 60532-1301

630-719-4615 281-474-1524

(9am - 5pm CST) (After 5pm)

EMERGENCY TELEPHONE

800-424-9300 (Chemtrec)

NUMBER:

ISSUE DATE: May 4, 2001

SUPERSEDES: April 27, 2001

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CANADIAN DOMESTIC SUBSTANCES LIST (DSL)

Is listed in the Canadian Domestic Substances List by CAS RN number 26221-27-2 as Ethylenevinyl-acetate-vinyl-alcohol copolymer.

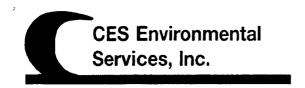
SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

When handling finely ground EVAL® powder, ground transfer, blending and dust collecting equipment to prevent static sparks. Remove all ignition sources from material handling, transfer and processing areas where dust may be present. Mechanical and local exhaust should be provided in work areas. Do not use near open flame or areas where smoking is permitted. EVAL® pellets spilled on walking surfaces constitute a slipping hazard. Work areas should be kept clean and free of pellets.

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which EVAL Company of America bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

PREPARED BY EVAL COMPANY OF AMERICA

Kinden Morgan 2617 2617



Material / Product Approval Letter

Date 2/15/2008

Dear Michael Jaskowiak

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2617

Expiration Date 2/15/2010

Producer: Kinder Morgan - Pasadena Facility

Address: 530 Witter St

Houston, TX 77506

Material / Product Information

Name of Material / Product Ethanol product

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

pH: 3-11

Chemical manufacturing and manufacturing facility

Chemical manufacturing and manufacturing facility

Color: brown Odor: hydrocarbon

Physical State:

Incompatibilities: oxidizers, heat, flame, ignition sources

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Ser. 7, 4 Specific gr.; #15/30l See Ser. 7, 4 4904 Griggs Road Phone: (713) 676-1 http://www TCEQ Industrial: Comp = Athanil - 14,0? U.S. EPA ID No: TXI Services, Inc.

Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

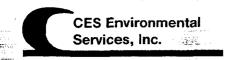
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Materi	ial Producer Info	mation						
Company :	Kinder Morgan							
Address :	530 h	sitter .	54.					
City, State, Zip:	Pasaden	a, Tx	7750	10				
Contact :	cance i	riley			Title :			
Phone No:	713-77	14- Y	912		Fax :			
24 / HR Phone:								
U.S EPA I.D No:	N/A		···				r 1 .	
State I.D :	N/A				SIC Code) [A	
SECTION 2: Billing	Information							
Company :	Same							
Address :	, <u> </u>							
City, State, Zip:	. •							
Contact :	_				Title :			
Phone No:	(· · ,				Fax :			
SECTION 3: Gener	al Description of	the Material	/ Product					
Name of Mateira	I / Product : Eth	anol produc	t					
Detailed Descrip	tion of the Proc	ess Gener	ating or Pro	ducing the N	laterial / Produc	t:		
Chemical manufa	cturing and man	ufacturing f	acility					
Physical State :	✓ Liquid		Sludge	[38]	Powder			
	Solid		Filter Ca	ake	Combination			
Color:			brown	Odor	:		hydrocarbon	
Specific Gravity	(Water=1) :	7t.8		Dens	ity:	(8.34)6-7	lbs / gal
Does this material	contain any total	phenolic co	mpounds?	Yes	V No			
Does this material	contain any para	substituted	phenolic con	npounds?	Yes	No No		
Layers :	Single-	Phase	Multi-P	hase				
Container Type :	. ■ Drum		Tote 🗸	Truck	Other (exp	olain)		
Container Size :	-5000	3000						
Number Of Units	1	-						•
Proper U.S. DOT	Shipping Name	e:		Flammable I	_iquids, n.o.s., UI	N 1993, PG	II (Ethanol)	
Class: 3		UN/NA:	UN1993		PG: II		RQ:	na

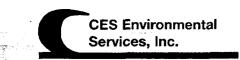
	≥145 64	9	3-11		na	mg/l	na	mg/l	0	%
ſ	Oil and Greas	e	TOC		Zinc		Сор	per	Nicke	ı
ı	na	mg/l	na	mg/l	na	mg/l	n	a mg/l	na	mg/l

COMPONENTS TABLE The material / product consists of the following materials Ethanol Water SECTION 5: Safety Related Data If the handling of this material / product requires the use of special protective equipment, please explain. Standard PPE SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. none SECTION 7: Incompatibilities Please list all incompatibilities (if any): none Oxidizar heat, flame, Sources of ignition.	with the second
Ethanol Water 93-95% to 1% SECTION 5: Safety Related Data If the handling of this material / product requires the use of special protective equipment, please explain. Standard PPE SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. none SECTION 7: Incompatibilities Please list all incompatibilities (if any):	%
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SECTION 7: Incompatibilities Please list all incompatibilities (if any):	
Please list all incompatibilities (if any):	
Please list all incompatibilities (if any):	
SECTION 8: Material Producer's Certification	
The information contained herein is based on 🗹 generator knowledge and/or 🗌 analytical data. I hereby ceriabove and attached description is complete and accurate to the best of my knowledge and ability to determine the deliberate or willful omissions of composition properties exist and that all known or suspected hazards have bedisclosed. I certify that the materials tested are representative of all materials described by this document.	hat no
Authorized Signature : Date :	
Printed Name / Title : not required /	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information	:
Compliance Officer: Labbara Thang expected to be high. If material is methanol, handle as CES Fuel	
Date: 2-15-08 Status: Approved Rejected #0.65 Gol CASOUN	
Approval Number: 2617 #69/hr + FSC	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

i.	Base Pricing (including freight):
	\$0.65/gd;\$500min; Towns\$69/hn + FSC
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
ı.	Special Testing Requirements:
	TOC is expected to be high. If material is mostly etheral
	handle as CES-finel; run density and pH.
5.	Treatment and Handling Protocol:
	See #4
ó.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



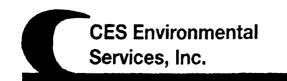
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7	Tasta fau Duadu	at Dansuad/Da	avalad (if any	aliaa bla).
7.	Tests for Produ	ct Recovered/Re	cycleu (II ap	meable):

See #4

8. Management for Product Recovered/Recycled (if applicable);

See #4



Waste Pre-Acceptance/Approval Letter

Date 2/15/2008

Dear Steve Sams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2618

Expiration Date 2/15/2010

Generator: Champion Ford Gulf Freeway

Address: 12227 Gulf Freeway

Houston, TX 77034

Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Unused oil spilled on the parking lot and water from pressure wash of the area

Color: brown/black

Odor: none

pH: 6-8

Physical State:

Incompatibilities: n/a

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener		107					
Company:	Champion Ford G						
Address:	Houston, Texas 77		 				
City, State, Zip: Contact:	Steve Sams	U34	Title:	Auth. Broker For Generator			
Phone No:	800-215-9868		Fax No:	n/a			
24/hr Phone:	281-838-3400		rax no:	IV a			
U.S. EPA I.D. No:	n/a						
State I.D.	n/a		— SIC Code:	n/a			
State 1.D.	10 4		_ 510 0000.				
SECTION 2: Billing	Information -	Same as Above					
		entrol & Environmental Ser	vices, Inc.				
	720 S. Lynchburg Ro	oad					
	Baytown, Texas						
	Steve Sams	Title:					
Phone No:	281-838-3400	Fax No:	281-424-7748	8			
-							
SECTION 3: Gener	al Description of the	e Waste					
							
Name of Waste: Oil	y Wastewater						
Detailed Description	of Process Generat	ing Waste: <u>Unused Oil Sp</u>	illed on the parki	ng lot & water from Pressure wash of the are			
Dhymical Ctatas	☑ Liquid	Sludge	Powder				
Physical State:	∐ Liquid	= *					
	☐ Solid	Filter Cake	Combinatio	n e e e e e e e e e e e e e e e e e e e			
Colom hanny /hlook		ldom none	1 . 6	he alice and I stall			
Color: brown/black	•	Odor: <u>none</u>	total	prenous compounds 1x1 No			
Smaaifia Caasita (swa	40······1\4 1	Densitus 9 24 the/ant	Paras	Sulostituted Phenetic or N.			
Specific Gravity (wa	ter=1): <u>1</u>	Density: 8.34 lbs/gal		phenalic compounds 12 No Substituted Phenalic 12 No Imponends			
Layers:	Single-phase	Multi-phase		· · · · · ·			
Layers.	MA Single-pinase	1viurei-phase					
Container Type:	☐ Drum	☐ Tote	☑ Truck	Other (explain)			
Container Size:		L 1000	70 bbl.				
Container Size:			70 DD1.				
	_		- 1	~			
Frequency:	Weekly	Monthly _	Quarterly				
Number of Units (co	ntainers): <u>1500 gal</u>	lons Other:					
Texas State Waste C	Code No: Re	cycle					
Proper U.S. DOT Sh	ipping Name:	Recyclable hydrocar	bon and water m	ixture (oily water)			
-				 ` 			
Class: n/a	UN/N	A: n/a	PG: n/a	RQ: n/a			
			-				
Flash Point	pH	Reactive Sulfides	Reactive C	yanides Solids			
>200	6-8	n/amg/l	n/amg/i	n/a%			
Oil&Grease	TOC	Zinc	Copper	Nickel			
7/200	-/	m/m	-//I	n/a/			

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	90-95 00	%
Oil	0-5	%
Dirt	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard ppe

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. $\underline{n/a}$

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

n/a

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.

Authorized Signature:	Date: <u>02/15/08</u>
Printed Name/Title: Steve Sams/Auth. Broker For Generator	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer:	Additional Information:
Date: 2-15-08 (Approved Rejected	
Approval Number: 2618	

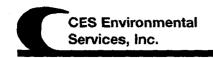
SECT	ION 10: Waste Receipt Classification Under 40 CFR 437
Is this	material a wastewater or wastewater sludge? YES NO
If 'Yes	s', complete this section.
PLEA	SE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Metals S</u>	Subcategory: Subpart A
M M C C C C C C C C	pent electroplating baths and/or sludges letal finishing rinse water and sludges hromate wastes ir pollution control blow down water and sludges pent anodizing solutions acineration wastewaters //aste liquid mercury yanide-containing wastes greater than 136 mg/l //aste acids and bases with or without metals leaning, rinsing, and surface preparation solutions from electroplating or phosphating operations ibratory deburring wastewater lkaline and acid solutions used to clean metal parts or equipment
_	ocategory: Subpart B
	sed oils value emulsions or mixtures ubricants oolants oolants oontaminated groundwater clean-up from petroleum sources (sed petroleum products oil spill clean-up oilge water cinse/wash waters from petroleum sources neceptor wastes off-specification fuels Inderground storage remediation waste onk clean-out from petroleum or oily sources fon-contact used glycols equeous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organic</u>	es Subcategory: Subpart C
	andfill leachate Contaminated groundwater clean-up from non-petroleum sources olvent-bearing wastes Off-specification organic product till bottoms syproduct waste glycol Vastewater from paint washes Vastewater from adhesives and/or epoxies formulation Vastewater from organic chemical product operations
□ T	ank clean-out from organic, non-petroleum sources

(1)	If the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
	\boxtimes	Oils Subcategory

SECTION 11: Additional Instructions

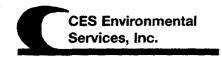
Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$ 0.10/gal TOC < 5000
	TOC < 5000
	Solido L 100
2.	Contamination Limits (maximum limit before surcharges apply):
	greater than above
3.	Surcharge Pricing:
	Rade table.
4.	Special Testing Requirements:
	run pH, TOC and total phenolics on the wooter phase.
5.	Treatment and Handling Protocol:
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Tests for Product Recovered/Recycled (if applicable):
Management for Product Recovered/Recycled (if applicable);

EPAHO108002327



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 2/21/2008

Dear David Willis

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2619

Expiration Date 2/21/2010

Producer: Rhomax USA Inc - Houston

Address: 1700 Tidal Road

Deer Park, TX 77536

Material / Product Information

Name of Material / Product Base oil flush

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused base oil material (Product)

Ollused base off material (1 found

Color: Amber Odor: Hydrocarbon

pH: 3-11

Physical State:

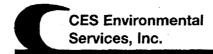
Incompatibilities: Strong oxidizers
Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

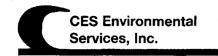
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Inforn	nation								
Company:	Rhomax USA in	c - Houst	on							
Address:	1700 Tidal Road	l 1700 Ti	dal Road	1						
City, State, Zip:	Deer Park TX 77	7536								
Contact :	David Willis					Title :				
Phone No:	(281) 228-8156				***	Fax :				
24 / HR Phone:										
U.S EPA I.D No:	na									
State I.D :	na		-		· .	SIC Code	na			
SECTION 2: Billing	Information									
Company :	Rhomax USA In	c - Housto	on							
Address :	1700 Tidal Road	1 1700 Ti	dal Road					· · · · · · · · · · · · · · · · · · ·		
City, State, Zip:	Deer Park TX 77	7536				· · · · · · · · · · · · · · · · · · ·				
Contact:	David Willis					Title:				
Phone No:	(281) 228-8156					Fax:				
SECTION 3: General	al Deceriation of th	aa Mataria	l / Brodu	nt.						
Name of Mateiral			i / Fioud	UL.						
Detailed Descript	tion of the Proce	es Gene	rating o	r Produ	cina the N	laterial / Produc	ct:			
Unused base oil n			i utili g o		Jg a					
Oriasca base on n	iatoriai (i Toddot)									
Physical State :	🗸 Liquid		∭ Slu	adge		Powder				
	■ Solid		Fil	ter Cake	8000	Combination				
Color:	· · · · · · · · · · · · · · · · · · ·		Amber		Odor	•		Hydrocarb	on	
Specific Gravity ((Water=1) :		0.86		Dens	ity :		7.17		lbs / gal
Does this material	contain any total p	henolic c	ompound	ls?	Yes	✓ No				
Does this material	contain any para s	ubstituted	l phenoli	с сотро	unds?	☐ Yes	✓ No			
Layers :	✓ Single-P	has	∭ Mı	ulti-Pha	se					
Container Type :	Drum		Tote	✓	Truck	Other (ex	plain)			
Container Size :	5000									
Number Of Units	:1	_ -								
Proper U.S. DOT	Shipping Name	:		<u> </u>	Non-R	CRA/Non-DOT F	Regulated M	laterial		
Close : no		HIN/NIA +	na		-	PG · na			· ·	ne

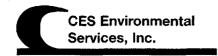
Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
>340	3-11	na mg/l	na mg/l	na%
Oil and Grease	TOC na mg/l	Zinc U mg/l	Se Copper	Nickelnamg/l

SECTION 4: Physical and Chemical Data		
COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
100 SUS Neutral (oil)	100	%
and the second s		
	· · · · · · · · · · · · · · · · · · ·	
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special protective Standard PPE	equipment, please explain.	-4
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to this form as part of MSDS for 100 SUS Neutral (same as CES Profile 1790)	f the material / product profile.	
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):		
Strong oxidizers		
SECTION 8: Material Producer's Certification		
The information contained herein is based on generator knowledge and/or above and attached description is complete and accurate to the best of my knowledge and the second secon	owledge and ability to determine thown or suspected hazards have been	at no
Authorized Signature :	Date: 2/21/2008	
Printed Name / Title : Matt Bowman / Agent for Producer		<u>. </u>
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :	
Compliance Officer: Prabhakar Thangudu		
Date: 2/21/2008 Status: Approved Rejected		
Approval Number: 2619		



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	CES will pay 701 gallon for Dil
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
,	
4.	Special Testing Requirements:
	Test color, ash, water content
	Specifiq gravity
	J J
5.	Treatment and Handling Protocol:
	Handle as baseoil; contact mar if this
	material is not base oil.
	Marine 15 lbs 5 lbs 1.
į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

٠.	Tests for 110duct Recovered in approache).
	BASEOIL
8.	Management for Product Recovered/Recycled (if applicable);
	BASEOIL

Material Safety Data Bulletin

PAGE 1 07 7

100 SUS NEUTRAL

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT MANE: 100 SUS MEUTRAL (STOCK: 142.0) SUPPLIEN: MORIL DIL CORP. RORTH AMERICA MARKETING AND REFINING 1225 GALLOWS ED. FAIRFAX, VA 22017

24 - Nour Emergency (call collect): 609-737-4411
Product and MEDS Information: 800-652-4525 609-224-4644
CRETTREC: 600-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHERCICAL HAMES AND SYMUNYMES PRITROLISM SYCROCARBONS

INCREDIENTE COMBIDEREN RAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have appared limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 16 for European Label Information.

See Section & for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OBHA BAZARD COMMUNICATION STANDARD: Produce assessed in accordance with ORBA 29 CFR 1910.1200 and determined not to be hastadous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

Material Safety Data Bulletin

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100 SUS MEUTRAL

NAME 2 07 7

4. FIRST AID MEASURES

BYS CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Which contact stees with mean and water. Remove contaminated electing. Launder contaminated electing before reuse. INDRALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem when ingested. If unconfortable seek medical assistance.

MOTE TO PRYSICIAMS: Meterial is espirated into the lungs may cause chemical presumenitis. Treat appropriately.

5. FIRE-FIGHTING MEASURES

ETTHOUSHING MEDIA: Carbon dictide, foun, dry chemical and water fog.

SPECIAL FIRE FICHTING PROCEDURES: Water or foam may cause frothing. The
water to keep fire exposed containers cool. Water spray may be used
to flush spills away from exposure. Prevent runoff from fire control or dilution from entering atreams, sewers, or drinking water supply.

OFFICIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters

must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION MAXARDS: Woos. Flesh Point C(F): > 171(340)

(ASTM D-53). Plemable limits - LeE. ST. UEL. NB.

MPPA HARRED ID: Health: 0, Fleshability: 1, Restivity: 0

RAZARDOUS DECOMPOSITION PRODUCTS: Carbon sunowide.

8. ACCIDENTAL RELEASE MEASURES

MOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. V. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry dreeks. Report spill to Coast Guard tell free number (800) 424-8602. In case of socident or road spill notify CHEMTREC (800) 424-9100.

PROCEDURES IF HATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, distanceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

of disposal.

myvironmental PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil. PRESONAL PRECLUTIONS: Dee Section &

7. HANDLING AND STORAGE

MANDLING: No special presentions are necessary beyond normal good hydiene practices. See Section S for additional personal protection advice when handling this product.
STORAGE DO not Store in open or unlabelled containers. Store away from errone exidizing agents or dombustible material.

Material Safety Data Bulletin

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100 MIN MEUTIDAL

PAGE 1 OF 7

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VERTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate vantilation.

EYE PROTECTION: MOTIVAL Industrial sys protection practices should be

employed.

SHIP PROTECTION: We special equipment required. However, good personal hygiene practices should always he followed.

SHOUGHE LIMITS: This product does not contain any components which have

recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

8. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid COLOR: Light Amber COOR: Mild COOR TERRESHOLD-pom: NE PE: NA SOLLTHM SOLET C(F): > 316(500) MELTING POINT C(F): MA FLASE POINT C(F): > 171(340) (ASTM D-93) FLAMMABILITY: NIL EXPLOSIVE PROPERTIES: MA OXIDIZING PROPERTIES: NA VAPOR PRESURE-DONG 20 C: < 0.1 VAPOR DESETT: > 2.0 EVAPORATION RATE: NE RELATIVE DEMSITY, 15/4 C: 0.66 RELATIVE DESSITY, 1574 C: 0.86
SOLUBILITY IN MATER: Megligible
PARTITION CORFFICIENT: NR
VISCOSITY AT 40 C, OSt; > 18.7
VISCOSITY AT 100 C, OSt; 4.0
POUR POINT C(F): -15(5)
FREEZING FOIRT C(F): NR VOLATILE ORGANIC COMPOUND: NA NA-NOT APPLICABLE HE-MOT BETABLISHED D-DECOMPOSES

FOR FURTHER TECHNICAL INFOUNDATION, CONTACT YOUR MARKETING REPRESENTATIVE

Material Safety Data Bulletin

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PAGE 4 09 7

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
COMPLTICES TO AVOID: Setreme heat.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
BASARDOUS DECOMPOSITION PRODUCTS: Carbon memoride.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

ORAL TURICITY (RATS): LD50: > 15 g/kg Practically non-toxic.
DERIGH TURICITY (RATS): LD50: > 5 g/kg Practically non-toxic.
DERIGH TURICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any quatomary or responsbly foresceable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draine score: Q or greater but 6 or less). --- Based on testing of similar products and/or the comments.

end/or the components.

ENUM TRAVELLION (RABBLES): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). --- Based on testing of similar products and/or the components.

---- STOCKRAMIC TOXICOLOGY (STREATY) --SEVERILY SOLVENT REFINED and NEVEROLY by directed mineral base oils have
been tested at Mobil Environmental and Health Sciences Leboratory by
dermal application to rate 5 days/week for 90 days at doses
significantly higher than those expected during normal industrial
exposure. Extensive evaluations including microscopic examination
of internal cryane and clinical chamistry of body fluids, showed no
adverse effects.

The base cile in this product are severely solvent refined and/or severely bydrotreated. Chronic mouse skin painting studies of severely treated cile showed no evidence of carcinogenic effects.

--- OTHER TOXICOLOGY DATA--- DMSO extract by IP346 is less than 30.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL PATE AND EFFECTS: Not established

Material Safety Data Bulletin

07MAY1999

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19, DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incideration. Such burning may be limited pursuant to the Researce Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCFA DiffORMATION: The unused product, in our epinion, is not specifically listed by the SFA as a hazardous wasts (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hexardous wasts. It does not exhibit the basardous characteristics of ignitability, correctivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLF). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT ARGULATED BY USA DOT.

THE ! NOT RESULATED BY DIO.

TATA: NOT REGULATED BY TATA.

15. REGULATORY INFORMATION

Governmental inventory Status: All components comply with TECA, EINES/ELINCS, AICS, MITI, DSL, RUREA, and FEILIPPINES.

EU Labeling: EU labeling not required.

U.E. Experiend Amendments and Resuthorisation Act (SARA) Title III: This product contains no "EXTREMELY MAZARDOUS SUBSTANCES".

BARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under SARA (313) toxic release program.

THIS PRODUCT MESTS THE REQUIREMENTS OF FDA REGULATIONS(S): 178.3630C

(Asotion continued next page)

Material Safety Data Bulletin

OTHER LABOR

100 SUS MUTTAL

PAGE (GF 7

The following product ingredients are cited on the lists below: CHEMICAL HAME CAS MONDER LIST CITATIONS

*** NO REPORTABLE INCREDIENTS ***

1-ACGIE ALL 6-YARC 1 11-TSCA 6 16-CA 965 CARC 21-LA ETK 2-ACGIE A1 7-ACRC 2A 12-TSCA 542 17-CA 965 REFRO 22-M1 283 3-ACGIE A2 8-IACC 2B 13-TSCA 56 19-FL ETK 21-M9 ETK 5-MTP 808 10-OHBA 2 11-TSCA 12b 20-IL ETK 25-PA ETK 26-RI RTK

Code key: CARO-Gercinogen; SUS-SUS-SUSPECTED Carcinogen; REPRO-Reproductive

16. OTHER INFORMATION

USE: BASE STOCK

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PORE.

INDREDIENT DESCRIPTION PERCENT CAS MUNCHAR

SOLVENT DEGACED HEAVY PARAFFINIC 100 64742-65-0 DISTILLATE (PETROLEIM)

For internal use Only: MRC: 0 0 MA 0" 1", MPEG: A, TRN: 921437-00, CMCS97: 975092, REQ: US - MARKETING. SAFE USE: L. BIS Approval Date: 07MAY1999

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49.4 JATOT

Material Safety Data Bulletin

Mobil

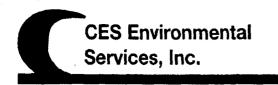
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100 500 MUTHAL

PAGE 7 00 7

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly DISCLAIM ALL MARANTISE OF EVERY RIND AND HATURE, INCLUDING MARANTISE OF MERCHANTASILITY AND FITHERS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Mobil assumes no responsibility for accuracy of information unless the document is the most current svallable from an official mobil distribution system. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America:

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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 2/19/2008

Dear Pete Forline

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2620

Expiration Date 2/19/2010

Producer: Stolthaven Houston, Inc. **Address:** 15602 Jacintoport Blvd.

Houston, TX 77015

Material / Product Information

Name of Material / Product Centrifuged wax

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

pH: na

Alpha Olefin 30+ wax bottoms that have been centrifuged

Color: white Odor: none

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900



SECTION 1: Mater	ial Producer Informatio	<u>n</u>			,
Company:	Stolthaven Houston, Inc	<u> </u>			
Address:	15602 Jacintoport Blvd				_
City, State, Zip:	Houston, TX 77015				
Contact:	Pete Forline		Title:	Superinte	ndent Wastewater Dept
Phone No:	281-860-6806		Fax No:	281-860-6	5860
24/hr Phone:	281-860-6800				
U.S. EPA I.D. No:	TXD980748461				
State I.D.	33722		SIC Code:	NF	<u> </u>
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛭 Same	as Above			
Contact:		Title:			
Phone No:		Fax No:			
SECTION 3: Genera	al Description of the Ma	terial / Product			
	roduct: <u>Centrifuged Wa</u> of Process Generating o		terial / Product:	Alpha Olefi	n 30+ Wax Bottoms that have beer
Physical State:	☐ Liquid ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Sludge Filter Cake	Powder Combination	n	
Color: White	Odor	none			
Specific Gravity (wat	er=1): <u>0.79</u> D	ensity: 6.6 lbs/gal			
Does this material co	ntain any total phenolic	compounds? 🗌 Ye	s 🛭 No		
Does this material co	ntain any para substitut	ed phenolic compou	nds? 🗌 Yes 🛛	☑ No	
Layers:	⊠ Single-phase	Multi-phase			
Container Type: Container Size:	Drum	Tote .	∑ Truck <u>5000 gal</u>		Other (explain)
Frequency: Number of Units (con	(0)	Monthly [Other:	Quarterly		Yearly
Proper U.S. DOT Shi		Non RCRA/Non DC	OT Regulated Mat	terial	
Class: N/A	UN/NA:	N/A	PG: N/A	A	RQ: N/A

Flash Point	pН	N/A	N/A		Solids	
450 deg F	N/A	IVA	IVA		100%	
Oil&Grease	TOC	Zinc	Copper	Nickel	<u> </u>	
N/Amg/l	N/Amg/I	<u>N/A</u> mg/l	N/Amg/1	N/Amg	/1	
SECTION 4: Physics	al and Chemical D	a <u>ta</u>				
	COMPONENT	CTARIE	· ·	Concentration	n I	Inits
The materia		of the following materia	ls	Ranges are accep		or %
Alpha Olefin 30+ Wa				100		6
· · · · · · · · · · · · · · · · · · ·						
						
 	······································					
						
SECTION 5: Safety	Related Data					
If the handling of this standard PPE	material / produc	t requires the use of spec	cial protectiv	e equipment, please	explain.	
SECTION 6: Attache	ed Supporting Doc	uments				
		nalysis attached to this f	orm as part o	of the material / prod	duct profile	:.
MSDS						
SECTION 7: Incomp	<u>atibilities</u>					
Please list all incompa	tibilities (if any):					
None	tibilities (ii any).					
<u></u>						
SECTION 8: Materia	l Producer's Cert	<u>ification</u>				
The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above a attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or will omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the material tested are representative of all materials described by this document.					deliberate or willful	
Authorized Signature	.	NITT		Date:		
Printed Name/Title: _	no signature r	equired				
CES USE ONLY (DO NOT	WRITE IN THIS SPA	(CE)				

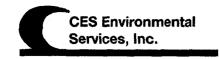
Rejected

Approved

2620

Technical Manager:

Approval Number:



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

ı.	Base Pricing (including freight):
	pay \$0.08/lb
	no charge for frieght
2.	Contamination Limits (maximum limit before surcharges apply):
	N/A
	N/A
ı	
3.	Surcharge Pricing:
٠.	
	N/A
ļ	
İ	
ĺ	
4.	Special Testing Requirements:
Ī	
ļ	
ĺ	
1	
. [
5.	Treatment and Handling Protocol:
٢	
1	
- }	
L	
í.	Treated Wastewater Discharge Subcategory:
•	A TABLE TO THE PROPERTY OF THE
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
- 1	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable):
	Heat to liquid & redirect to buyer according to job write-up



ALPHA OLEFIN 30+ HA

24-Hour Emergency Telephone Numbers

HEALTH :ChevronTexaco Emergency Information Center (800) 231-0623 or (510) 231-0623

TRANSPORTATION: USA: CHEMTREC (800) 424-9300 or (703) 527-3887

ASIA: (800) ALERTSGS or (800) 25378747 or +65+6542+9595 EUROPE: +32+14+584545 (phone) or +32+14+583516 (telefax) SOUTH AMERICA SOS-Cotec Inside Brazil: 0800+111+767

Outside Brazil: 55+19+3467+1600

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

ALPHA OLEFIN 30+ HA

Product Number(s): CC02073700, CC02073600, CC02904000, CC02904100, CC03620200, CC03746500, CC03804100, CC03807400

Company Identification:

Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380 **Product Information:**

MSDS Requests: (800) 852-5530 Technical Information: (800) 852-5531

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT
ALKENE C30+	260255-62-7	100.00 % weight

Occupational Exposure Limits:

Occupational Exposure F	HIHLD.				
Component	Limit	TWA	STEL	Ceiling	Notation
ALKENE C30+	CPCHEM	Not Established	NA	NA	NA

MEDICAL APPLICATION CAUTION: Do not use this Chevron Phillips Chemical Company, LP material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues.

Do not use this Chevron Phillips Chemical Company, LP material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company, LP or by an authorized or approved Chevron Phillips Chemical Company, LP distributor under a contract which expressly acknowledges the contemplated use.

Chevron Phillips Chemical Company, LP makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human

Revision Number: 0 Revision Date: 11/18/2002 1 of 7

body or in contact with internal body fluids or tissues.

SECTION 3 HAZARDS IDENTIFICATION

White, waxy solid.

IMMEDIATE HEALTH EFFECTS:

Eye: If this material is heated, thermal burns may result from eye contact. Not expected to cause prolonged or significant eye irritation.

Skin: Thermal burns to the skin: may include pain or feeling of heat, discoloration, swelling, and blistering. If this material is heated, thermal burns may result from skin contact. Not expected to be harmful to internal organs if absorbed through the skin. Contact with the skin is not expected to cause prolonged or significant irritation.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the upper respiratory tract.

SECTION 4 FIRST AID MEASURES

Eye: If heated material should splash into eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelids open. Remove contact lenses, if worn. Get immediate medical attention. No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water. Skin: If the hot material gets on skin, quickly cool in water. See a doctor for extensive burns. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Ingestion: No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

Flammability: 1

NFPA RATINGS: Health: 0

FLAMMABLE PROPERTIES:

Flashpoint: 232°C (449.6°F) (Pensky-Martens Closed Cup)

Autoignition: 368°C (694.4°F)

Flammability (Explosive) Limits (% by volume in air): Lower: NDA Upper: NDA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

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ALPHA OLEFIN 30+ HA MSDS: CPC00027

Reactivity: 0

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: If heated material is spilled, allow it to cool before proceeding with disposal methods. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: U.S.A. regulations require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the U.S. Coast Guard National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL.

Precautionary Measures: Do not breathe vapor or fumes from heated material. Avoid contact of heated material with eyes, skin, and clothing. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Unusual Handling Hazards: Potentially toxic/irritating fumes may be evolved from heated material.

General Handling Information: Avoid work practices that may release volatile components in the atmosphere. Local air pollution regulations should be consulted to determine if the release of volatile components is regulated or restricted in the area in which this material is used. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77), 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

If heated material generates vapor or fumes, use process enclosures, local exhaust ventilation, or

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other engineering controls to control exposure. Use in a well-ventilated area. If user operations generate airborne material, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: If this material is heated, wear chemical goggles or safety glasses and a face shield. No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate to prevent skin contact. No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile Rubber, or Polyurethane, or Viton

Respiratory Protection: No respiratory protection is normally required. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Full-Face Supplied-Air Respirator, or Full-Face Air-Purifying Respirator for Organic Vapors

Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling	Notation
ALKENE C30+	CPCHEM	Not Established		NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White, waxy solid.

pH: NA

VAPOR PRESSURE: NA VAPOR DENSITY (AIR=1): NA

BOILING POINT: NA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

VISCOSITY: 7.4 CST @ 99°C MELTING POINT: 74°C (165.2°F) SPECIFIC GRAVITY: 0.79 @ 15.6 °C DENSITY: 0.833 g/ml @ 60 °F

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: No Data Available

Incompatibility With Other Materials: May react with strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: No Data Available

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

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Acute Oral Toxicity: The oral LD50 in the rat is > 2.0 g/kg.
Acute Dermal Toxicity: The dermal LD50 is not available.
Acute Inhalation Toxicity: The inhalation LC50 is not available.

Eye Irritation: This material is not expected to be irritating to the eyes. Skin Irritation: This material is not expected to be irritating to the skin.

ADDITIONAL TOXICOLOGY INFORMATION:

The toxicological properties of this product have not been tested or have not been tested completely and its handling or use may be hazardous. EXERCISE DUE CARE.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:

This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard is based on data for a similar material.

ENVIRONMENTAL FATE:

This material is considered ultimately, but not readily, biodegradable. The biodegradability of this material is based on data for a similar material.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS

GOODS FOR TRANSPORTATION DOT Hazard Class: NOT APPLICABLE DOT Identification Number: N/A DOT Packing Group: NOT APPLICABLE

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

Immediate (Acute) Health Effects:

NO NO

2. Delayed (Chronic) Health Effects:

NO

3. Fire Hazard:

NO

Sudden Release of Pressure Hazard:

NO

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5. Reactivity Hazard:

NO

REGULATORY LISTS SEARCHED:

04A = IARC Group 1	12 = TSCA Section 8(a) PAIR	21 = TSCA Section 5(a)
04B = IARC Group 2A	13 = TSCA Section 8(d)	25 = CAA Section 112 HAPs
04C = IARC Group 2B	15 = SARA Section 313	26 = CWA Section 311
05 = NTP Carcinogen	16 = CA Proposition 65	28 = CWA Section 307
06 = OSHA Carcinogen	17 = MA RTK	30 = RCRA Waste P-List
09 = TSCA 12(b)	18 = NJ RTK	31 = RCRA Waste U-List
10 = TSCA Section 4	19 = DOT Marine Pollutant	32 = RCRA Appendix VIII
11 = TSCA Section 8(a) CAIR	20 = PA RTK	33 = MN Hazardous Substance

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

CHEMICAL INVENTORY LISTINGS:

CANADA; All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0 HMIS RATINGS: Reactivity: 0 Health: 0 Flammability: 1

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This is an original Chevron Phillips Chemical Company LP MSDS. It has been created out of a new authoring system under direction of Chevron Phillips Chemical Company LP Product Stewardship Group.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average STEL - Short-term Exposure Limit PEL - Permissible Exposure Limit ACGIH - American Conference of Government OSHA - Occupational Safety & Health Industrial Hygienists NIOSH - National Institute of Safety & Health NFPA - National Fire Protection Agency

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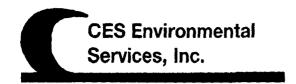
WHMIS	 Workplace Hazardous Materials Information System 	IRAC - Intl. Agency for Research on Cancer	IRAC -
EINECS	 European Inventory of existing Commercial Chemical Sales 	RCRA - Resource Conservation Recovery Ad	RCRA -
SARA	 Superfund Amendments and Reauthorization Act, 	TSCA - Toxic Substance Control Act	TSCA -
EC50	- Effective Dose	LCS0 - Lethal Concentration	LC50 -
LD50	- Lethal Dose	CAS - Chemical Abstract Service Number	CAS -
NDA	- No Data Available	NA - Not Applicable	NA -
< =	- Less Than or Equal To	>= - Greater Than or Equal To	>= .
CNS	- Central Nervous System		

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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7 2 4.09 8.4.09 25



Waste Pre-Acceptance/Approval Letter

Date 2/21/2008

Dear Pete Forline

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 262

Expiration Date 2/21/2010

Generator: Stolthaven Houston, Inc. Address: 15602 Jacintoport Blvd.

Houston, TX 77015

Waste Information

Name of Waste: Light ends TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Alcohol product heel from barge clean-out

Color: varies

Odor: mild

pH: 6-8

Physical State:

Incompatibilities: nitrates, strong oxidizers, acids, alaklis, ignites in contact with

potassium-tert-butoxide, heat, sparks, open flames and souces of

ignitions

Safety Related Data/Special Handling:

see msds

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. V Flock Pt = 60° F J V See. 7 PFI 4. dens; ty

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

mpany:	Stolthaven Ho					
ldress:	15602 Jacintopor					
ty, State, Zip:	Houston, TX 770	715	The same of the sa	G sulus	- J	
outact: one No:	Pete Forline 281-860-6806		Title: Fax No:	281-860	endent Wastewater De	<u>pı</u>
/hr Phone:	281-800-0800		FRX ING:	201-000	-0800	
S. EPA I.D. No:	TXD980748461					
ite LD.	33722		SIC Code:	NA		
CTION 2: Rillin	g Information – 🏻	Same as Ahove				
mpany:						_
dress:						
y, State, Zip:						
ntact:			tle:			
one No:		Fa	x No:			
dm.0312						
CTION 3: Gene	ral Description of the	he Waste				
me of Waste: Li		iting Waste: Alcohol	product heel from ba	ree clean-out		
mred Deserthus.			. p	<u> </u>		
		Г) «»	[T] 3 3			
sical State:	⊠ Liquid	☐ Sludge	☐ Powder			
rsical State:		Sludge Filter Cake	☐ Powder ☐ Combinat	iop		
rsical State: or: <u>vari</u> es	Liquid □ Solid			ion		
or: <u>varie</u> s	Liquid □ Solid	Filter Cake	☐ Combinat	ion		
or: <u>varies</u> cific Gravity (wa	☑ Liquid☐ Soliditer=1): 0.8-0.95	Filter Cake Odor: mild Density: 6.6	☐ Combinat	ion		
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or: varies cific Gravity (was s this material co s this material co ers: tainer Type:	Liquid Solid Solid 1. So	Filter Cake Odor: mild Density: 6.6 enolic compounds? estituted phenolic com Multi-p	☐ Combinat -7.9 lbs/gal Yes ⊠ No mpounds? ☐ Yes hase	⊠ No	Other (explain)	
or: varies cific Gravity (was s this material co s this material co ers:	Liquid Solid 1. Solid 1. Solid 1. Solid 1. Solid 1. Solid 2. Solid 2. Single-phase	Filter Cake Odor: mild Density: 6.6 enolic compounds? estituted phenolic com Multi-p	☐ Combinat -7.9 lbs/gal Yes ⊠ No mpounds? ☐ Yes hase	⊠ No	Other (explain)	
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or: varies cific Gravity (was s this material colors; ers: tainer Type: tainer Size:	Liquid Solid Solid 1. Solid 1. Solid 1. Solid 1. Solid 1. Solid 1. Single-phase 2. Drum 55 gal Weekly	Filter Cake Odor: mild Density: 6.6 enolic compounds? estituted phenolic compounds: Multi-p Tote Monthly	☐ Combinat -7.9 lbs/gal Yes ⊠ No mpounds? ☐ Yes hase	⊠ No	Other (explain) ————	
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or: varies cific Gravity (was s this material colors; ers: tainer Type: tainer Size:	Liquid Solid Solid 1. Solid 1. Solid 1. Solid 1. Solid 1. Solid 1. Single-phase 2. Drum 55 gal 3. Weekly 1. Weekly 1. Mainers): 2	Filter Cake Odor: mild Density: 6.6 enolic compounds? estituted phenolic compounds: Multi-p Tote Monthly	Combinat i-7.9 lbs/gal Yes ⊠ No mpounds? □ Yes hase □ Truck ———	⊠ No		
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Flash Point	pH	Reactive Sulfides	Reactive Cyanide	s Solids
60 F	6-8	N/Amg/I	N/Amg/I	0%
Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/I	N/Amg/I	N/Amg/I	N/Amg/I	N/Amg/I

SECTION 4: Physical and Chemical Data

SSAMBHEAL AND ENDING	Converted to	100
The waste consists of the following materi	ials Ranges are acceptable	or %
n-propanol	90-100	%
Water	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSINS

SECTION 7: Incompatibilities

Please list all incompatibilities (If any):

Incompatible worth nitrates, strong oxidizers, acids. & alkalis. Ignites in contact worth potassium-tert-butoxide. Heat, sparks, open flames and sources of ignition.

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:

N/A

TCLP Volatiles:

N/A

TCLP Semi-Volatiles:

N/A

Reactivity:

the product is stable

Corrosivity:

N/A

Ignitability:

Flammable liquid (flash point below 100 deg F

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signatur	re:	te.	Forler

Date: Feb 19 2008

Printed Name/Title: Pete Forling Environmental Superintendent

CES USE ONLY (DO NOT WRITE IN TO	MS SPACE)	1		College Colleg	
Date: 2-21-08	Approved	Rejected			e e s ter de la co Nobel de la C
Approval Number: 262					
And the second s			Manufacture of Consequent		

. <u>\$</u>	SECTION 10: Waste Receipt Classification Under 40 CFR 437		
ì	s this material a wastewater or wastewater sludge? 🔲 YES 🛮 🔀	NO	
I	f 'Yes', complete this section.		
F	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIA	TE CATEGORY, GO TO TI	HE NEXT PAGE.
<u> Me</u>	tals Subcategory: Subpart A		
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incincration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electropla Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	ating or phosphating operation	as
<u>Olls</u>	Subcategory: Subpart B		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Oil-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes		
<u>Orga</u>	nics Subcategory: Subpart C		
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	e see and a second seco	
	en en en en en en en en en en en en en e	in the second se	on the second product of the second product
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	3		

- If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
 If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
 Cadmium: 0.2 mg/L
 Chromium: 8.9 mg/L
 Copper: 4.9 mg/L
 Nickel: 37.5 mg/l.
 If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
 Metals Subcategory
 Oils Subcategory

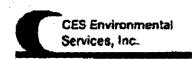
SECTION 11: Additional Instructions

Organics Subcategory

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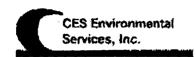
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

1.42



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):			
	\$ les / drum + trans -	tfsc		
2.	Contamination Limits (maximum limit before surcharge	es apply):		
	fuel compatible			
3.	Surcharge Pricing:			
4.	Special Testing Requirements:			
	fuel comparible	; run density.		
	fuel comparible Test water phase for	pH, R total phenolics.	a=.	
5.	Treatment and Handling Protocol:			
	mix w/ light ends			
		STEELENSTEELE -		
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6. 「	Treated Wastewater Discharge Subcategory:		· · · · · · · · · · · · · · · · · · ·	
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PROCESS FACILITY INFORMATION (CES USE ONLY!!)

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Material Safety Data Sheet n-Propanol

1 Chemical product and company identification

Common name

: n-Propanol

Code

: 2044

Supplier

: Sasol Solvents

Trading as Sasol Chemicals North America LLC.

MSD\$#

: 19

900 Threadneedle, Suite 100 Houston, Texas 77079 USA

Telephone: 281 588 3000 Facsimile: 281 588 3381

: 1-Propanol, Hydoxypropane, 1-Propyl alcohol,

Validation date

: 08/05/2002.

Synonym Trade name

Ethyl carbinol, n-Propan-1-ol, Propylic alcohol.

Print date

: 15/05/2002

Material uses

: n-Propanol

Prepared by

: Consumer products: Degreasing agent.

Industrial applications: Antiseptic. Intermediate. Organic syntheses. Solvent for waxes, cellulose esters and flexographic inks.

Petrochemical industry: As a diluent in brake fluids and polishing materials. Chemical intermediate.

: Lehlohonolo B Mothebe

Manufacturer

: Sasol Chemical Industries Ltd.

Private bag X1000

Secunda 2302 South Africa

TEL: +27 17 610-2416

In case of emergency

: Chemtrec: 800-424-9300

International:

091-703-527-3887

Composition / information on ingredients

Name	CAS#	% by weight	Exposure limits
1) n-Propanol	71-23-8	99.9	ACGIH (United States, 2002). TWA: 200 ppm ACGIH TLV (United States, 2002). TWA: 492 mg/m³ STEL: 250 ppm OSHA PEL Z2 (United States, 2002). TWA: 200 ppm TWA: 500 mg/m³

3 Hazards identification

Physical state and appearance : Liquid. (Liquid)

Emergency overview

: WARNING!

CAUSES EYE IRRITATION. FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.

MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

MAY CAUSE SKIN IRRITATION.

Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid prolonged contact with eyes, skin, and clothing. Do not inqest. Avoid breathing vapor or mist. Keep container

closed. Use only with adequate ventilation. Wash thoroughly after handling.

: Absorbed through skin. Eye contact. Inhalation. Ingestion. Routes of entry

n-Propanol Page: 2/6

Potential acute health effects

: Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, Eves

watering, and itching.

Skin : Hazardous in case of skin contact (irritant, permeator). Skin inflammation is characterized by itching,

scaling, reddening, or, occasionally, blistering.

Inhalation : Hazardous in case of inhalation.

Ingestion Hazardous in case of ingestion.

Potential chronic health effects

CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH.

MUTAGENIC EFFECTS: Not listed. TERATOGENIC EFFECTS: Not listed.

Medical conditions aggravated by overexposure:

: Persons with pre-exisiting eye, skin, respiratory, neurological or allergic conditions may be more sensitive. n-Propanol enhances the CNS effect of m-dinitrobenzene, hense persons also exposed to

this chemical may be more sensitive.

: CNS depression: Dizziness, incoordination, headache, confusion, stupor, hematemesis, diarrhea, **Overexposure** /signs/symptoms circulatory collapse, persistent coma, death by respiratory arrest.

Late manifestations: aspiration pneumonia, kidney and liver dysfunction, which are usually mild and

transient, but the renal impairment may be serious.

See toxicological information (section 11)

First aid measures

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 Eye contact minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately

Skin contact After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention.

Wash contaminated clothing before reusing.

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Inhalation

oxygen. Get medical attention.

Ingestion DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not

conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing,

perform artificial respiration. Seek immediate medical attention.

Notes to physician : Support respiratory and cardiovascular function.

Fire fighting measures

Flammability of the product : Flammable.

371°C (699.8°F) Autoignition temperature

Flash points CLOSED CUP: 15°C (59°F). OPEN CUP: 23°C (73.4°F). (Cleveland).

LOWER: 2.1% UPPER: 13.5% Flammable limits

Products of combustion These products are carbon oxides (CO, CO2).

Fire hazards in presence of various substances

Highly flammable in presence of open flames and sparks, of heat, of oxidizing materials.

Explosion hazards in presence of various substances

: Risks of explosion of the product in presence of mechanical impact: Nonle. Risks of explosion of the product in presence of static discharge: Not available.

Incompatible with strong oxidisers, nitrates, alkalis and acids.

Fire fighting media and instructions

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to

prevent pressure build-up, autoignition or explosion.

Protective clothing (fire) Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective

Special remarks on fire hazards Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes.

Special remarks on explosion hazards

Contact with strong oxidizers may cause an explosion. Run-off to sewers may cause a fire or explosion hazard. Containers may explode when heated.

n-Propanol

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Accidental release measures

Small spill and leak

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk, Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed,

Handling and storage

Handling

Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Storage

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Exposure controls, personal protection

Engineering controls

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Splash goggles.

Body Chemical resistant protective suit.

: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate Respiratory

respirator when ventilation is inadequate.

Hands : Butyl rubber gloves.

Feet Chemical resistant safety boots.

Protective clothing (pictograms)



Personal protection in case of a large spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product name

1) Propyl alcohol

Exposure limits

ACGIH (United States, 2002).

TWA: 200 ppm

ACGIH TLV (United States, 2002).

TWA: 492 mg/m³ STEL: 250 ppm

OSHA PEL Z2 (United States, 2002).

TWA: 200 ppm TWA: 500 mg/m²

9 Physical and chemical properties

Physical state and appearance

: Liquid. (Liquid)

Color

Colorless liquid with a mild alcoholic odor

Odor Taste Alcohol like. (Slight.)

Molecular weight

Burning. (Strong.)

60.09g/mole

Molecular formula

C3-H8-O

pH (1% soln/water)

: 7 [Neutral.]

Boiling/condensation point

: 97.2°C (207°F)

Melting/freezing point

: -126.2°C (-195.2°F)

n-Propanol Page: 4/6

Critical temperature : 263.7°C (506.7°F) Specific gravity 0.804 (Water = 1)

Vapor pressure 14.9 mm of Hg (@ 20°C)

Vapor density 2.1 (Air = 1)

Volatility 100% (v/v). 100% (w/w).

Odor threshold : 5.3 ppm Evaporation rate 1.3 [Solvent] VOC 100 (%) : 2.256 cP Viscosity

The product is more soluble in oil; log(oil/water) = 0.3 LogK_{ow}

Ionicity (in water) Not available.

Dispersion properties : See solubility in water, methanol, diethyl ether.

Solubility : Easily soluble in cold water, hot water, methanol, diethyl ether.

Physical chemical comments : No additional remark.

10 Stability and reactivity

Stability and reactivity : The product is stable. Conditions of instability : Heat, sparks and flames.

Incompatibility with various

substances

: Incompatible with nitrates, stong oxidizers, acids and alkalis. Ignites in contact with potassium-tert-butoxide.

Hazardous decomposition

products

: Emits acrid smoke and irritating fumes. May release Carbon monoxide.

Hazardous polymerization : Will not occur.

11 Toxicological information

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR **Toxicity to Animals**

EXPOSURE.

Acute oral toxicity (LD50): 1870 mg/kg [Rat]. Acute dermal toxicity (LD50): 4060 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 4000 ppm 4 hour(s) [Rat].

Chronic effects on humans : CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH.

Causes damage to the following organs: kidneys, lungs, liver, cardiovascular system, skin.

Other toxic effects on humans

Very hazardous in case of eye contact (irritant).

Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special remarks on toxicity to

animals

: No additional remark.

Special remarks on chronic effects on humans

: No additional remark.

Special remarks on other toxic

: Exposure can cause nausea, headache and vomiting.

effects on humans

12 Ecological information

Ecotoxicity : Ecotoxicity in water (LC50): 1822865.7 ppm 96 hour(s) [Fathead minnow].

The BOD5 is 6.4 mg/L [5 days Day(s)] The COD is 0.071 mg/kg [1 hr Day(s)] **BOD** and COD

Biodegradable/OECD : Biodegradable from OECD.

Mobility Not available.

Products of degradation : Possibly hazardous short term degradation products are not likely.

Toxicity of the products of

biodegradation

: The products of degradation are less toxic than the product itself.

Special remarks on the products: No food chain concentration potential.

of biodegradation

n-Propanol

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13 Disposal considerations

Waste information

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste stream

: Hazardous waste: Ignitable RQ is 100 lbs.

Consult your local or regional authorities.

14 Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3			Reportable Quantity 100 lbs. (45.36 kg)
TDG Classification	UN1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	JI		-
IMDG Class	1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	II		-
IATA-DGR Class	1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	II .		-

15 Regulatory information

HCS classification

: Class: Flammable liquid having a flash point lower than 37.8°C (100°F).

U.S. Federal regulations

: TSCA 8(b) inventory: Propyl alcohol

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were

found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

-

: Pennsylvania RTK: Propyl alcohol

Florida: Propyl alcohol

Massachusetts RTK: Propyl alcohol

California prop. 65: No products were found.

EU Regulations

State regulations

Hazard symbol(s)





Classification

: Highly flammable, Harmful

Risk phrases

R11- Highly flammable.

R41- Risk of serious damage to eyes.

R67- Vapors may cause drowsiness and dizziness.

n-Propanol

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Safety phrases

: S7- Keep container tightly closed.

S16- Keep away from sources of ignition - No smoking.

S24- Avoid contact with skin.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39- Wear eye/face protection.

EINECS Number

: 200-746-9.

16 Other information

National Fire Protection Association (U.S.A.)

Fire Hazard

Health

Reactivity

Specific hazard

References

: - LOLI Database: The regulated Chemicals List of Lists.

- CHEMINFO: Canadian Centre for Occupational Health and Safety, Issue: 97-3 (August, 1997).- BDH; Hazard Data Disk, Version 3.- CESARS: Chemical Evaluation and Retrieval System, Produced by: Ontario Ministry of Environment and Michigan Department of Natural Resouces, Issue:97-3 (August, 1997).- TOMES Plus System: Toxicology, Occupational Medicine & Environmental Series: incorporating:- MEDITEX, HAZARDTEXT, 1st Medical Response Protocols, INFOTEXT, HSDB, CHRIS, OHM/TADS, IRIS, NIOSH Pocket Guide, RTECS, NJ Fact Sheets, North American Emergency Response Guides, REPROTEXT, REPROTOX, TERIS, Shepard's Catalog of Teratogenic Agents.

Other special considerations

: No additional remark.

Date of printing

Date of issue

15/05/2002.

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08/05/2002.

Date of previous issue

No Previous Validation.

Version

: **2**

Verified by

Tom Grumbles.

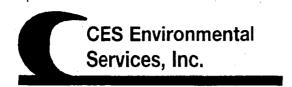
Notice to reader

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since SASOL and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on reliance.

BOX # 10 9

TYPE OF DOCUMENTS:	Customer fr	ele folders.
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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: 5-10

Waste Pre-Acceptance/Approval Letter

Date 6/11/2009

Dear Accounts Payable- Donna Landry

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3366

Expiration Date 6/11/2011

Generator: T.T. Barge (Mile 237)

Address: 5190 North River Road

Port Allen, LA 70767

Waste Information

Name of Waste: Hazardous Wastewater

TCEQ Waste Code #: OUTS102H

Container Type:

Detailed Description of Process Generating Waste:

water from rinseout of barge residue bottoms

Color: varies-brown Odor: mild

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

Hazardous DC/MM Need LDR docs. Thanks



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If "Yes", Is Characterist	it:	D001 (Ignitabl	e)	=	☐ D006	D003 (Read		□ D009	
Characterist D018	ic for Toxic C	rganics: D012	thru D043 (p	olease list a	li that apply)				·
		d waste or mix t ALL applicab		?	☐ Yes	V	No		
40 CFR 261.	33(e) or (f)?	uct or spill cle	Y	<u>-</u>	a "U" or "P" wa] No	ste code un	der		
Texas State	Waste Code	Number:		OUTS102F	<u> </u>				
Proper US D	OT Shipping	Name:	Hazardous \	Waste Liqui	d, n.o.s. (benze	ne)			
Class:	9	UN/NA:	NA3082	PG:	111	RQ:			
Flash	Point	pl		React	ve Sulfides	Reactive	Cyanides	Sol	ids
>1	40	5-1	0	NA	mg/l	NA	mg/l	<2	%
Oil &	Grease	то	С		Zinc	Copper		Nickel	
100	mg/l	25,000	mg/l	<1	mg/l	<1	mg/l	<1	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	99-100	%
Alcohol	0-1	%
Gasoline	0-1	%
Lube Oil	0-1	%
Glycol	0-1	%
Benzene	0-1	%
Styrene	0-1	%
Xylene	0-1	%
Toluene	0-1	%

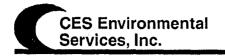
		aste requires the use of special protective equipment, please explain.
	ments, note	upporting Documents s, data and/or analysis attached to this form as part of the waste
	Incompatib LL incompat	<u>ilities</u> ibilities (if any):
Laboratory	analysis of th	Knowledge Documentation ne hazardous waste characteristics, listed below, WAS NOT PERFORMED g generator knowledge:
TCLP Metals	s:	x
TCLP Volatil		X
TCLP Semi-\	/olatiles:	X
Reactivity:		X
Corrosivity:		X
Ignitability:		X
SECTION 9: \\ Facilities)	Is this mater If 'Yes',	t Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment ial a wastewater or wastewater sludge? CK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Metals Subc</u>	ategory: Sub	part A
		oplating baths and/or sludges
	Chromate wa	ng rinse water and sludges
		control blow down water and sludges
		ing solutions
L	Incineration Waste liquid	wastewaters
H	•	taining wastes greater than 136 mg/l
		and bases with or without metals
		sing, and surface preparation solutions from electroplating or phosphating operations
片		burring wastewater
Ш	Aikaline and	acid solutions used to clean metal parts or equipment
Oils Subcated	<u>ory</u> : Subpar	t B
	Used oils	
	Oil-water em	oulsions or mixtures
片	Coolants	
		d groundwater clean-up from petroleum sources
	Used petrole	·
	Oil spill clear	-up
H	Bilge water	vaters from petroleum sources
Ш		Total of the participant about the second se

Interceptor wastes
U Off-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources
☐ Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
Organics Subcategory: Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
Off-specification organic product
☐ Still bottoms
☐ Byproduct waste glycol
☐ Wastewater from paint washes ☐ Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
✓ Tank clean-out from organic, non-petroleum sources
En Tank dear-out from organic, non-petroleum sources
(1)
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
,
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
NICKEI. 37.3 IIIg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
The information contained herein is based on 💮 🔲 generator knowledge and/or 🔂 analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature: Date: 6/4-69
Printed Name/Title: May 7050 for Cas
Printed Name/Title: 1/1/1/2 1021/14 Cas
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
O , A \cup
Compliance Officer:
Date: 15-12-04 Approved Rejected
Approval Number: 3566



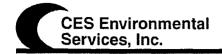
LDR Notifications/Certifications

	Generator Informatio	n			2.	Receiving Facility			1
	Name:	T.T. Barge (mile			1	Name:	CES Environmental Services, Inc		
	Address:	5190 North Riv]	Address:	4904 Griggs Road		
		Port Allen, LA			1		Houston, TX 77021		
	EPA ID No.:	LAD982306763			_	EPA ID No.:	TXD008950461		
	Manifest No.:								
3.	Waste Description at	Point of Genera	tion						
Line	Line								
item	Waste Descr	ription	Hazardous Waste Codes	LDR Subcateg	ory	ww / Nww	Underlying Hazardous	Constituents [2]	8.2(1)]
1	Hazardous Wastewate	r	D018			ww	benzene		
2			•		-				
3									
4					_				
5			<u></u>						
4.	4. Waste Disposition								
Line	Line 268.45, Table 1 Technology used to treat								
Item Subtitle C Exclusion Subsequent to Point of Generation (if applicable) Current Disposition of Waste				tion of Waste	debris (if applicab	te)	Date Shipped		
1									
3									
5	4								
							<u> </u>		
			of generation but subsequently					m m	
			Rerstic wastes managed in waste			tems discharging u	nder the CWA)?	•	
	☐ Yes ☐ No	(It yes, this con	stituents the 268.7(a)(7) one-tim	e notification.)			· · · · · · · · · · · · · · · · · · ·		
6.	Waste the waste char	acterstic at the p	point of generation, treated onsit				tment residues then shipped to	a	
	Subtitle D land dispos	al facility?	Yes V No (If yes, o	omplete Certific	cation	n 1 or 2.)			
7.	Was the waste "debri:	s" that was haza	rdous at the point of generation	but subsequent	lly be	came excluded fro	m the definition of hazardous wa	ste	
	under 261.3(f)(1) by to	reating it using a	in extraction or destruction techi	nology in 268.4	5, Tal	ple 17	Yes V No (if yes, o	omplete Certific	ation 3.)
R.	Was the waste "debris	s" that was haza	rdous at the point of generation	hut subsequent	lu he	came excluded from	m the definition of bazardous w	aste	
			onger-contains" determinatin fro				,, ale demination of high-odds —		į
			onstituents the 268.7(d)(1) one-						
9.	9. Is the waste residue from treating K061, K062 and/or F006 wastes in high-temperature metals recovery (HTMR) units that 1) meets the generic								
exclusion levels in 261.3(c)(2)(ii)(C), 2) does not exhibit any characterstics, and 3) is shipped to a Subtitle D land disposal facility?									
			lete Certification 4.)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
10.	Waste that has	heen treated to	o remove a characterstic and me	otr undorbilan b		dous constituents	thedoode	Applies to Item	
20.	_							Applies to item	».
			aw that the waste has been treat					ļ	
			the hazardous characterstics and ted on-site to meet the 268.48 U					Reference:	ad 369 0/4\
	and the second s							268.7(b)(4)(v) a	na 266.9(a)
	are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.								
11.	Waste that has been treated to remove a characteristic but does not meet underlying hazardous constituents Standards. Applies to items:								
	taran da antara da antara da antara da antara da antara da antara da antara da antara da antara da antara da a								
								Reference:	. 252 64 11
			to remove the hazardous charact stituents that require further tre					268.7(b)(4)(v) a	ind 268.9(d)
			abmitting a false certification, inc						
								I.	
12.	_		o meet the alternative treatment					Applies to Item	s:
			law that the debris has been trea					<u></u>	
			e that there are significant penal	ties for submitti	ing a	talse certification,	including	Reference:	
		ollity of fine and	imprisonment.					268.7(b)(4)(v)	nd 268.9(d)
13.	HTMR residue	from treating K	DG1, KDG2 and/or FOOG wastes.					Applies to Item	s:
ı	I certify u	nder penalty of I	law that the generic exclusion le	vels for all const	tituer	nts have been met	without	L	
			d that no characteratic of hazard					Reference:	· · · · · · · · · · · · · · · · · · ·
			ubmitting a false certification, inc					268.7(b)(4)(v)	ind 268.9(d)
	Authorized Signa	nture;	Aller Cal			:	Date: <u> </u>	01	
	Printed Name / 1		Jeffer Baha	Environ	M 0 A	Ital Safate	Mac	- • • • • • • • • • • • • • • • • • • •	
	Authorized Signature: Iffery Col Date: 6/10/07 Printed Name / Title: Jeffery Bob. 1 Environmental Sufety Mgr								



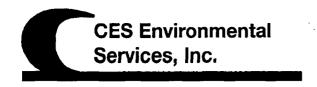
PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$0.23/gallon plus \$900.00/load freight
2. Contamination Limit (maximum limit before surchages apply):
TOC: 20,000 Solids: 4% Oil: 5%
<u> </u>
3. Surcharge Pricing:
TOC: \$0.03/gallon/5,000 TOC Greater than 20,000; Solids: \$0.01/gallon/% greater than 4%; Oil - see salesperson
, , , , , , , , , , , , , , , , , , , ,
4. Special Testing Requirements:
Solids, TOC, Oil, phenol, metals,
5. Treatment and Handling Protocol:
heat and acidify to break out hydrocarbon layer, treat water phase, mix hydrocarbon phase with black oils
induction and action to break out nyarocarbon layer, areas water phase, mix nyarocarbon phase with black ons
6. Treated Wastewater Discharge Subcategory:
o. Heaten wastewater Districtes Subtates or y.
☐ Subcategory A ☐ Subcategory B ☑ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

	ecovered/Recycled (if applicable):	
black oil compatability	У	
		
8. Management for P	roduct Recovered/Recycled (if applicable)	·
8. Management for P mix with black oils	roduct Recovered/Recycled (if applicable)	
	roduct Recovered/Recycled (if applicable)	<u> </u>
	roduct Recovered/Recycled (if applicable)	
	roduct Recovered/Recycled (if applicable)	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 3/11/09

To: Dana Carter

Cc: Matt Bowman, Prabhaker, Joe Camp, Clint Hopkins

From: Miles Root Lab Memo: 09-044

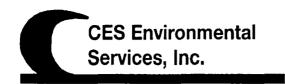
Subject: TT Barge Evaluation 0309-20

A sample of oily water from TT Barge has been evaluated for potential processing at CES. This sample is evaluation 0309-20, and is material from the cleaning of barges last containing benzene related materials. The potential volume of this source is three loads per week. Overall, we can process this oily water with our standard acid/heat treat. The benzene, if any, should not be an issue, as it will stay in the oil phase when this material is heated and acidified. I recommend we pursue the acquisition of this stream for processing.

The oily water has an approximate 2% oil layer and a pH of 6. It has a slight hydrocarbon odor and has only a trace of solids. The water treats easily once the oil is removed. The phenol and metals are acceptable. The TOC is 11,490 ppm, so we need to cover this extra cost to us in our charges. This material should come in as a D018 waste but our processing will eliminate that waste code in our water. There are no other concerns with this material.

The table below summarizes the analytical testing.

· · · · · · · · · · · · · · · · · · ·	TT Barge
Evalu	ation 0309-20
Solids, vol%	Trace
Odor	Slight Hydrocarbon
рH	6
Phenols, ppm	5
TOC, mg/L	11,490
Oil, vol%	2
Treatability	OK
Metals, ppm	
Ni	0.011
Zn	0.010
Cu	0.000
Cd	0.028



Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Zac McKaughan or Dave Esman

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3428

Expiration Date 7/27/2011

Generator: Lee Waste Management

Address: P.O. Box 30449

Houston, TX 77249

Waste Information

Name of Waste: Soil with hydro carbons

TCEQ Waste Code #: CESQ3011

Container Type:

Detailed Description of Process Generating Waste:

Truck turned over current, multch, small hydraulic truck leak

Color: Dark

Odor: Slight

pH: 5-7

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gener Company: Address: City, State, Zip: Contact: Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D.	A Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code: Sic Code:
Company: Address: City, State, Zip: Contact:	Information - Same as Above CKG Services 1420 Honen Egypt Mentagnery IX 77316 Lac McKangnan Title: President 14.483. 3662 Fax No: 936.750.7666
Name of Waste: Some Detailed Description by Correct Physical State:	of Process, Generating Waste: Truck turn over Currin, multh small Liquid Sludge Powder Solid Filter Cake Combination Odor: SPNT
Specific Gravity (wa	•
Does this material co	ontain any total phenolic compounds? 🔲 Yes 🗡 No
Does this material co	ontain any para substituted phenolic compounds? 🔲 Yes 🔀 No
Layers:	Single-phase
Container Type: Container Size:	Drum
Frequency: Number of Units (co. Texas State Waste C	ode No:
Proper U.S. DOT Sh	Now Hararley Non leaght
_na	UN/NA: PG: RQ:

<u>SEC</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is th	nis material a wastewater or wastewater sludge? YES NO
	Yes', complete this section.
PLI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Metal</u>	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Olls S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolauts Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
\exists	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L r: 4.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
	П	Organics Subcategory

SECTION 11: Additional Instructions

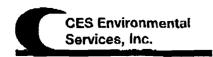
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Flash Point	pH S=7	Reactive Sulfidesmg/lA	Reactive Cyan mg/l	1) H	Solids
Oil&Grease / DD_mg/l	TOC 7 500 mg/l	Zinc BR-mg/1	Copper BRLmg/1	Nickel BRLn	1g/I
	<u> </u>		^^^ 6 / 1		-5'-
SECTION 4: Physic	al and Chemical D	ata			
	COMPONEN			onesitostio	
The v	vaste consists of the	following materials		s are accept	
Unit de	Moreovan	(all Diesel myan)		5 -100	90
	1 CM DECOMATA	X (30H) (1435-6 /H 16401-1		, (10
					
SECTION 5: Safety	Related Data				
		e use of special protective e	quipment, please e	kplain.	
SECTION 6: Attach	ned Supporting Doc	cuments			
List all documents, n		analysis attached to this for	m as part of the wa	ste approval	l package.
SECTION 7: Incom	<u>patibilities</u>				
Please list all incomp	patibilíties (if any):				
SECTION 8: Gener	ator's Knowledge]	Documentation			
Laboratory analysis generator knowledge		zaste characteristics, listed l	oelow, WAS NOT I	PERFORME	D based upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatile Reactivity: Corrosivity: Ignitability:	s: <u> </u>				
SECTION 9: Gener	ator's Certification	<u>.</u>			
attached description omissions of compos	is complete and accition properties exis	d on generator knowledge curate to the best of my known t and that all known or susp eccribed by this document.	wledge and ability	to determin	e that no deliberate or will
	100		I	Date: 7/2	2/19
Authorized Signatur	·				•
Authorized Signatur	7	Mckensh			
_	74	7			
Printed Name/Title:	74	7			
Printed Name/Title:	OT WRITE IN THIS SP.	7			



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	# Call Dan for pricing
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
	·
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	BUK to classe box
e.	Treated Westernatur Direktores Substantia
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);

LABORATORY ANALYSIS REPORT

KAP TECHNOLOGIES, Inc.

9391 Grogans Mill Rd., Suita A-2 The Woodlands TX. 77380

Ph: 281-367-0065 Fax: 261-367-6772

Report Date:

July 27, 2009

KAP Lab Episode No:

3410

	ustomer Project Information/Analy	ytical Requirement	
<u>Client Project Name</u>	242 & Hwy 69	Client Project Number:	

Reported To:

CKG Services, LLC. 7420 Honea Egypt Rd. Montgomery, TX 77316 936-483-3662

Project Manager: Zac McKaughn

E-Mail Address: 2acm@ckg-services.com

KAP TECHNOLOGIES, Inc. has analyzed the following samples as indicated on the ettached Chain-of-Custody:

Client Sample	9804-1	Sam	pling	KAP Lab ID:	Analysis
Identification	Matrix	Date	Time	KAF Lab ID.	Alielysis
Waste Characterization	Soil	7/14/09	10:45	3410-01	TCLP Benzene, TCLP Metals, TPH
2					
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9					
o	·	 			
Y				- · ,	

Analytical	Report Approved by	r: _
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Dr. Rao Alsakani Laboratory Director



**KAP Technologies is NELAP (T104704394-08A-TX) accredited. Effective: 10/27/2008; Expires: 12/31/2009 Scope: Non-Potable Water and Solids

Pege: 1 of 11

KAP TECHNOLOGIES, Inc.

9391 Grogans Mill Rd., Suite A-2 The Woodlands, TX 77390 Ph: 281.367.0065 Fax: 281.367.6772 Report Date: 07/27/2009

ACTORIAL S	Laboratory Term	n and Qualifier	Definitions		w least the company
To the second		SPACE.			The state of the s
CFU/100mL	Colony forming units per 100mL of sample	ND	Analyte n	ot detected at or al	bove the reporting limit.
Conc	Concentration	ppm	parts per	million	
DF	Oilution Factor	QC	Quality C	ontrol	
LCS	Laboratory Control Sample	Reg Limit	Regulator	ry Limit	
LCSD	Laboratory Control Sample Duplicate	Rpt Limit	Reporting	Limit	
MDL	Method Detection Limit	RPD	Relative I	Percent Difference	
MQL	Method Quantitation Limit	SQL	Sample C	Quantitation Limit (F	Reflects any adjustments
MS	Matrix Spike		made duri	ing analysis such as (lry weight or dilution.)
MSD	Matrix Spike Duplicate	TNTC	Too num	erous to count	
С	Sample analysis was sub-contracted to a cert	tified laboratory.			
D	Elevated reporting limit due to dilution. Dilution	· · · · · · · · · · · · · · · · · · ·	sample matrix	interference or high	n terget analytes or both.
E	Estimated result. Value outside calibration ra		··· •		
н	Sample analyzed outside the EPA recommen	_	for the reques	ited analysis.	
t	Estimated result due to % RSD or correlation	_	-	-	ation.
J	Result is between the MDL and the reporting	limit.			
L	LCS or LCSD recovery is outside the QC limit	ts.			
M	MS or MSD recovery is outside the QC limits.				
R	Percent RPD is outside the QC limits				
S	Surrogate recovery is autside the QC limits.	Sampie results w	ere confirmed	by re∽analysis.	
\$D	Surrogate recovery is outside the QC limits do	ue to dilution of th	ne sample.		
	Analyte not detected above the MDL				



KAP TECHNOLOGIES, Inc.

9391 Grogans MH Rd., Suite A-2 The Woodlands TX, 77380 Ph: 281,387,0065 Fex: 281,387,6772

Laboratory Analysis Report Volatiles - SW046/8280B

	TCLPYOLA	TILE ORGANIC COMPOUNDS	3
CLIENT NAME PROJECT MANAGER PROJECT NAME PROJECT NUMBER METHOD REFERENCE	:CKG Services LLC :Zao McKaughn :242 & Hwy 69 :::SW846-8260B	CLIENT SAMPLE ID LAB SAMPLE ID SAMPLE MATRIX DATE SAMPLED DATE RECEIVED	:Waste Characterization :3410.01 :TCLP Extract :07/14/2009 :07/14/2009
INSTRUMENT ID INSTRUMENT FILE SAMPLE VOLUME DILUTION FACTOR	:A5973 :A22054 :10 mL	DATE ANALYZED TIME ANALYZED ANALYST	:07/27/2009 :01:51 :SB

Analyte	Units Quantitation		Results	Qualifler	
Benzene	mg/L	0.010	ND		

	QUALITY CO	NTROL DATA		• . • 1
Surrogate Compound	Spike Added	% Recovery	QC Limits	Qualifler
Dibromofluoromethane	0.010 mg/L	118	56-153	
1,2-Dichloroethane-d4	0.010 mg/L	110	64-138	
Toluene-d8	0.010 mg/L	97	68-140	
4-Bromofluorobenzene	0.010 mg/L	78	70-137	



KAP TECHNOLOGIES, Inc.

9391 Grogens Mill Rd., Suite A-2 The Woodlands TX. 77380 Ph: 281.367.0085 Fax: 281.367.6772

Laboratory Analysis Report TCLP Metals 6010B/7470

e uskut ter	The state of the s	TCLP METALS		
CLIENT NAME	:CKG Services LLC	CLIENT SAMPLE ID	:Waste Characterization	
PROJECT MANAGER	:Zac McKaughn	LAB SAMPLE ID	:3410.01	
PROJECT NAME	:242 & Hwy 59	SAMPLE MATRIX	:TCLP Extract	
PROJECT NUMBER	: —	ANALYST	:RA	
MÉTHOD REFERENCE	:SW846-6010B, 7470	DATE SAMPLED	:07/14/2009 .	
		DATE RECEIVED	:07/14/2009	

Analyte	Date Prepared	Date Analyzed	DF	Quantitation Limit	Results	Units	Qualifler
Antimony	7/22/09	7/22/09	1	0.50	ND	rng/L	
Arsenic	7/22/09	7/22/09	1	0.50	ND	mg/L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Barium	7/22/09	7/22/09	1	1.00	ND	mg/L	,
Beryllium	7/22/09	7/22/09	1	0.25	ND	rng/L	
Cadmium	7/22/09	7/22/09	1	0.05	ND	mg/L	
Chromium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Lead	7/22/09	7/22/09	1	0.25	ND	mg/L	
Mercury	7/22/08	7/22/09	1	0.05	ND	mg/L	
Nickel	7/22/09	7/22/09	1	0.25	ND	mg/L	
Selenium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Silver	7/22/09	7/22/09	1	0.50_	ND	mg/L	<u> </u>



KAP TECHNOLOGIES, Inc. 9391 Grogane Mill Rd., Suite A-2 The Woodlands TX, 77380 Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report TPH (TX1005)

	TOTAL PETROL	EUM HYDROCARBONS (TX1	005)
CLIENT NAME PROJECT MANAGER PROJECT NAME PROJECT NUMBER METHOD REFERENCE	:CKG Services LLC :Zec McKaughn :242 & Hwy 69 : :TX1005	CLIENT SAMPLE ID LAB SAMPLE ID SAMPLE MATRIX DATE SAMPLED DATE RECEIVED	:Waste Characterization :3410.01 :Soil :07/14/2009 :07/14/2009
INSTRUMENT ID INSTRUMENT FILE EXTRACTION AMOUNT DILUTION FACTOR	:A5890 :A10831 :10 g	DATE ANALYZED TIME ANALYZED ANALYST	:07/14/2009 :13:33 :SK

Hydrocarbon Range	Units	Quantitation Limit	Results	Qualifier
C ₆ - C ₁₂	mg/Kg	20.0	362	
>C ₁₂ - C ₂₈	mg/Kg	2000	49200	D
>C ₂₈ - C ₃₅	mg/Kg	5000	101000	D

V V.3	QUALITY CO	NTROL DATA	***	1,174
Surrogate Compounds	Spike Added	% Recovery	QC Limits	Qualifier
1-Chlorooctane	250 mg/Kg	114	70-130	
O-Terphenyl	250 mg/Kg	113	70-130	



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Laboratory Analysis Report

Quality Control Data - TCLP Blank Volatiles - 8W846/82609

TCLP VOLATILE ORGANIC COMPOUNDS - QUALITY CONTROL REPORT						
CUENT NAME	;	CLIENT SAMPLE ID	:			
PROJECT MANAGER	;	LAB SAMPLE ID	:VBLK48			
PROJECT NAME	:	SAMPLE MATRIX	:Water			
PROJECT NUMBER	Ituat	DATE SAMPLED	:—			
METHOD REFERENCE	:5W846-8260B	DATE RECEIVED	:			
INSTRUMENT ID	:A5973	DATE ANALYZED	:07/28/2009			
INSTRUMENT FILE	:A22050	TIME ANALYZED	:23:45			
SAMPLE VOLUME	:10 mL	ANALYST	:SB			
DILUTION FACTOR	: 6					

Analyte	Units	Quantitation Limit	Results	Qualifier
Benzene	mg/L	0.005	ND	

QUALITY CONTROL DATA							
Surrogete Compound	Spike Added	% Recovery	QC Limits	Qualifier			
Dibromofluoromethane	0.010 mg/L	111	56-153	1.			
1,2-Dichloroethane-d4	0.010 mg/L	104	64-138				
Taluene-d8	0.010 mg/L	103	68-140				
4-Bromofluorobenzene	0.010 mg/L	72	70-137				



Page: <u>6</u> of <u>11</u>

9391 Grogans Mill Rd., Sulta A-2 The Woodlands TX. 77380 Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - TCLP LCS/D Volatiles - SW846/8260B

erre e de la companya de la companya de la companya de la companya de la companya de la companya de la companya	TCLP VOLATILE ORGANIC	COMPOUNDS QUALITY CO	NTROL REPORT
CLIENT NAME	; ===	CLIENT SAMPLE ID	:
PROJECT MANAGER	:	LAB SAMPLE ID	:VLC\$48
PROJECT NAME	:	SAMPLE MATRIX	:Water
PROJECT NUMBER	: —	DATE SAMPLED	1
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	
INSTRUMENT ID	:A5973	DATE ANALYZED	:07/27/2009
INSTRUMENT FILE	:A22051	TIME ANALYZED	;00:16
SAMPLE VOLUME	:10 mL	ANALYST	:SB
DILUTION FACTOR	: 1		

Analyte	Units	LCS Spike Added	LCS Result	LCS %Recovery	QC Limits LCS/D	Qualifier
Benzene	mg/L	0.01	0.0097	97	70 - 131	

	QUALITY CO	NTROL DATA	y Historia de la fina	
Surrogate Compound	Spike Added	% Recovery	QC Limits	Qualifier
Dibromofluoromethane	0.010 mg/L	103	56-153	
1,2-Dichlomethane-d4	0.010 mg/L	96	64-138	
Toluene-d8	0.010 rng/L	97	68-140	_
4-Bromofluorobenzene	0.010 mg/L	89	70-137	



Page: <u>7</u> of <u>11</u>

9391 Grogans MIR Rd., Suite A-2 The Woodlands TX. 77380 Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - TCLP Blank
TCLP Metals 8010B/7470

TCLP METALS - QUALIT	Y, CONTROL REPORT
CLIENT NAME :	CLIENT SAMPLE ID :
PROJECT MANAGER : ***	LAB SAMPLE ID :ICPB138
PROJECT NAME :	SAMPLE MATRIX : Water
PROJECT NUMBER :	ANALYST :RA
METHOD REFERENCE :SW846-6010B, 7470	DATE SAMPLED ;
	DATE RECEIVED :

Analyte	Date Prepared	Date Analyzed	DF	Quantilation Limit	Results	Units	Qualifier
Antimony	7/22/09	7/22/09	1	0.50	ND	mg/L	
Arsenic	7/22/09	7/22/09	1	0.50	ND	mg/L	,,,,,,,
Barlum	7/22/09	7/22/09	1	1.00	ND	mg/L	
Beryllium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Cadmium	7/22/09	7/22/09	1	0.05	ND	mg/L	
Chromium	7/22/09	7/22/09	1	0,25	ND	mg/L	
Lead	7/22/09	7/22/09	1	0.25	ND	mg/L_	
Mercury	7/22/09	7/22/09	1	0.05	ПN	mg/L	, , , , , , , , , , , , , , , , , , ,
Nickel	7/22/09	7/22/09	1	0.25	ND	mg/L	
Selenium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Silver	7/22/09	7/22/09	1	0,50	ND	mg/L	



9391 Grogens Mill Rd., Suite A-2 The Woodlands TX. 77380 Ph: 281.367.0065 Fex: 281.367.6772 Laboratory Analysis Report
Quality Control Data - TCLP LCS/D
TCLP Metals 6010B/7470

1,200	TCLP METALS QUALIT	TY CONTROL REPORT		90 1
CLIENT NAME		CLIENT SAMPLE ID : -		\ A.)
PROJECT MANAGER	: 	LAB SAMPLE ID :ICPL13	8	
PROJECT NAME	:	SAMPLE MATRIX :Water		
PROJECT NUMBER	;	ANALYST :RA		
METHOD REFERENCE	:SW846-6010B, 7470	OATE SAMPLED :		
		DATE RECEIVED ;		
		DATE ANALYZED :07/22/2	009	

Analyte	Units	LCS Spike Amount	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	QC Limita LCS/D	RPD	RPD QC Limits	Qualifier
Antimony	mg/L	1.00	1.12		112	-	75 - 125		25	
Arsenic	mg/L	1,00	1.11		111		75 - 125	~	25	
Barium	mg/L	1.00	1.14	T	114		75 - 125	-	25	·
Beryllium	mg/L	1.00	1.06		106		75 - 125		25	
Cadmium	mg/L	1,00	1.09		109		75 - 125		25	
Chromium	mg/L	1.00	1.09		109		75 - 125	••	25	
Lead	mg/L	1.00	1,15	^-	115		75 - 125		25	1-,
Mercury	mg/L	0.005	0.0041		83	·····	75 - 125		25	
Nickel	mg/L	1.00	1.09		109		75 - 125		25	·
Selenium	mg/L	1.00	1.06		106		76 - 125		25	
Silver	mg/L	0.50	0.590		118		75 - 125		25	··-/



9391 Grogana Mill Rd., Suite A-2 The Woodlands TX. 77380 Ph; 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report Quality Control Data - Soll Blank

TPH (TX1005)

TOTAL PETROLEUM HYDROCARBONS (TX1005) - QUALITY CONTROL REPORT								
CLIENT NAME		CLIENT SAMPLE ID	-					
PROJECT MANAGER	. ****	LAB SAMPLE ID	:TPHBLK79					
PROJECT NAME	;	SAMPLE MATRIX	:Soil					
PROJECT NUMBER	:	DATE SAMPLED	;					
METHOD REFERENCE	:TX1005	DATE RECEIVED	1 MI					
NSTRUMENT ID	:A5890	DATE ANALYZED	:07/14/2009					
INSTRUMENT FILE	:A10832	TIME ANALYZED	:14:24					
EXTRACTION AMOUNT	:10 g	ANALYST	:9K					
DILUTION FACTOR	:1		·					

Hydrocarbon Range	Units	Quantitation Limit	Results	Qualifler
C ₆ - C ₁₂	mg/Kg	20.0	ND	
>C ₁₂ - C ₂₈	mg/Kg	20.0	ND	
>C ₂₈ - C ₃₅	mg/Kg	50.0	ND	

18.7% (SE	QUALITY CO	QUALITY CONTROL DATA					
Surrogate Compounds	Spike Added	% Recovery	QC Limits	Qualifier			
1-Chlorooctane	250 mg/Kg	121	70-130				
O-Terphenyl	250 mg/Kg	130	70-130				



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Laboratory Analysis Report Quality Control Data - Soli LCSID

TPH(TX1006)

CLIENT NAME	;	CLIENT SAMPLE ID	;
PROJECT MANAGER	;	LAB SAMPLE ID	:TPHLCS79
PROJECT NAME	:	SAMPLE MATRIX	:BoS:
PROJECT NUMBER	:	DATE SAMPLED	:
METHOD REFERENCE	:TX1005	DATE RECEIVED	<u>:</u>
INSTRUMENT ID	:A5890	DATE ANALYZED	:07/14/2009
INSTRUMENT FILE	:A10833	TIME ANALYZED	:15:14
EXTRACTION AMOUNT	:10 g	ANALYST	:SK
DILUTION FACTOR	:1		

Hydrocarbon Range	Units	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Result	LCSD % Recovery	QC Limite LCS/D	RPD %	Qualifier
C ₆ - C ₁₂	mg/Kg	250	255	102			75-125		
>C ₁₂ - C ₂₈	mg/Kg	250	267	107			75-125		
>C ₂₈ - C ₃₅	mg/Kg	500	521	104			75-125		,

	QUALITY CON	TROL DATA	2.14.2	
Surrogate Compounds	Spike Added	% Recovery	QC Limits	Qualifier
1-Chlorooctane	250 mg/Kg	126	70-130	
O-Terphenyl	250 mg/Kg	126	70-130	



	Technologies, Inc.	Samp	le Receipt C	Checkli	ist
	Grogans Mill Rd., Suite A-2 Voodlands, TX 77380				
1110 *	VOODIBIOS, TX 17380				
KAP E	pisode #: 3410	Date Received: 7-14-09	Time Received:	11:42	2
Client	Name: CKG	Project #:			
Samp	les Delivered by: Client	Total number of	coolers:		
		Evaluation of Samples		Yes	No
1	Cooler(s) received with custody s	seal.			1
2	Sample(s) received on ice.			~	
3	Sample(s) received with chain-of			<u> </u>	
_	A			• /	1
4	Chain-of custody signed.				-
5	Sample(s) received with signed s				7
5	Sample(s) received with signed s Sample containers arrived intact	(If no, please describe below)	lae Other	V	7
5	Sample(s) received with signed s Sample containers arrived intact		lge Other.		
5	Sample(s) received with signed s Sample containers arrived intact	(If no, please describe below) quid Sludge Solid Vapor Bad	lge Other.		
5 6 7	Sample(s) received with signed s Sample containers arrived intact. Matrix: Water Soll Lic	(If no, please describe below) quid Sludge Solid Vapor Bad containers.	lge Other	V	
5 6 7 8	Sample(s) received with signed s Sample containers arrived intact Matrix: Water Soll Lic Sample(s) received in appropriate	(If no, please describe below) quid Sludge Solid Vapor Bad containers. preservatives.	lge Other.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
5 6 7 8 9	Sample(s) received with signed s Sample containers arrived intact Matrix: Water Soll Lic Sample(e) received in appropriate Sample(s) received with proper p	(If no, please describe below) quid Sludge Solid Vapor Bad e containers. preservatives. abeled.	lge Other:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
5 6 7 8 9	Sample(s) received with signed s Sample containers arrived intact Matrix: Water Soll Lic Sample(s) received In appropriate Sample(s) received with proper p All samples were tagged and/or l	(If no, please describe below) quid Sludge Solid Vapor Bad e containers. preservatives. abeled. D's.	ge Other:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
5 6 7 8 9 10 11 12	Sample(s) received with signed s Sample containers arrived intact Matrix: Water Soll Lic Sample(s) received in appropriate Sample(s) received with proper p All samples were tagged and/or is Sample ID labels match C-O-C if	(If no, please describe below) quid Sludge Solid Vapor Bad e containers. preservatives. abeled. D's. pottles received.	ge Other	ンシンシン	
5 6 7 8 9 10 11 12 13	Sample(s) received with signed s Sample containers arrived intact Matrix: Water Soll Lic Sample(s) received in appropriate Sample(s) received with proper p All samples were tagged and/or i Sample ID labels match C-O-C if Bottle count on C-O-C matches it	(If no, please describe below) quid Sludge Solid Vapor Bad e containers. preservatives. abeled. D's. pottles received. clent for analyses requested.	lge Other:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
5 6 7 8 9 10 11 12 13 14	Sample(s) received with signed s Sample containers arrived intact Matrix: Water Soll Lic Sample(e) received In appropriate Sample(s) received with proper p All samples were tagged and/or I Sample ID labels match C-O-C II Bottle count on C-O-C matches II Sample volume received is suffice	(If no, please describe below) quid Sludge Solid Vapor Bad e containers. preservatives. abeled. D's. pottles received. clent for analyses requested. the required holding time(s).	ge Other.	ンシンシン	NA

Received by: MA, Bellows Check In by: Nicole HOGUE Date: 7.14.09

KAP TECHNOLOGIES, Inc. 9391 Grogans Mill Rd., Suite A2 The Woodland	ds, TX 77384	Chai Ph:28	n-of-Cus 1.367.0065							Chain-of Custody (COC Pg.)
	Project		\$1.6531.55%		Standard				Tales :	
CKG Surars	Number	U2 1	11	CAT	Non-Rush Rush					
Markon TV 7736		59	ray		sport Needed By:		_	<i>E</i> -	-Mail Report To:	
	Profession (POS)					\Box	1			
Project MCMC 12 PM - 25 To 1724	Za			1		}	2			
PH: 21 ~ 4 (~4)(9ax. 7)(0)(4)(4)				+	m 1	#	3	DAIS .		
			TEX and/or MTBE VOCs - M8260 TPH (TX1005)	Metals RCRA-0	BERIG RUKA-84- PAHS-BZ705IM SVOCE - MR270					K171.17
			BTEX and VOCs -	Metals	PAHS-82705IM SVOC5 - M8270	Ì			COMMENTS	KAP LAB Sample ID:
wite Character 12. 1. 7/14	1841	1 1	 	4/		\dashv		1	CIP	3410.01
						\exists		1/23	Add TCLP &	
						_				
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Relinguished by:	Date:	Tune; Time:	Received by:				gay ja	Cate:	Time:	
Laboratory Orc-peinery Fedekups/			-M	Ç.	B.01_	_	1/14/0	7/11:42	PROBLEMS WITH SAMPLE S Lag record by Details	SET; Rafer to Sample Receipt
Milito Yellow - Laboratory Copies Finit - Cland Copy							<u>'I!</u> _			

CKGS BRAVIORS

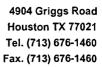
To: J	enny	Fax:	113.748.	ELDOA
From: ZZ	ic mckau	Ighan Date:	1/27/09	
Re: Prof	ik LAB	Pages:	20	
CC:	for La	= NastMai	nagement	_
□ Urgent	☐ For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle

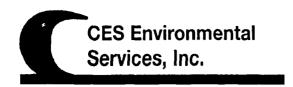
Notes

Thank you, we Never forget that we work for you!

Zacmo chy-sentes.

3429 Polytex Fibers Corp





Waste Pre-Acceptance/Approval Letter

Date 7/21/2009

Dear Graciela Curiel

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3429

Expiration Date 7/20/2011

Generator: Polytex Fibers Corp **Address:** 9333 Baythome Drive

Houston, TX 77041

Waste Information

Name of Waste: Used oil

TCEQ Waste Code #: RECYCLE

Container Type:

Detailed Description of Process Generating Waste:

Removal of used oil from equipment

Color: dark

Odor: hydrocarbon pH: Na

Physical State:

Incompatibilities: None Known

Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

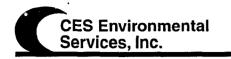
☑ C		ental Services - House			Environmental Services - Po	
		s Road, Houston, TX 76-1460 Fax: (713)			20 S. Gulfway Dr., Port Arth ne (713) 676-1460 Fax: (7	
	Number: TXD		VR Number: 30900		lumber: TXR000079307	ISWR Number: 88585
1		olid Waste Permit N	mber: 30948			,
		r Information				
	Polytex Fibe				<u></u>	
Address:	9333 Bayth	orne Drive	ļ		_ _	
City:	Houston		State:	TX	_Zip:	77041
Contact:	Graciela Cu		<u> </u>	Title:	Purchasing Agent	
Phone Nun		713-690-9055		_Fax Number:	713-939-3120	
24/hr Phon		800-628-0034		_		
US EPA ID		TXCESQG	ļ		NIA	
State ID No):	CESQG		SIC Code:	NA	
SECTION			 			
	: Billing Info		ame as Above			
	Polytex Fibe					
Address:	9341 Bayth	orne Drive	24-4	TV	7	770//
City:	Houston		State:	TX		77041
Contact:		742 600 0055		_Title:	7/10 000 0100	A-44
Phone Nun	nber:	713-690-9055		_ rax number;	713-939-3120	
SECTION 2	· Ganaral D	escription of the \	Manta			
SECTION 3	. General D	escribuon or the	AGRE			
Name of W	aeta:	Used Oil				
		Process General	ing Wests			
Detailed De	sanpaon a		ing waste.			
removal of u	sed oil from	equipment		•		
Physical St	ate: 🔽	Liquid	☐ Sludge	. \square	Powder	
_		Solid	Filter Cak	é 🗍	Combination	
			_			
Color:	dark			Odor:	hydrocarbon	
Specific Gr	avity (water	=1):	0.9	<u>)</u>	Density:8.3 lb	s/gai
_		_				
Does this n	naterial cont	ain any total phei	ralic compounds?	? 🗌 Ye	es 🕡 No	
D					<u></u>	
Does this m	naterial cont	ain any para sub	stituted phenolic o	compounda?	☐ Yes ☑ N	0
ta di a sata d					-	-
Is the Wast	e subject to	the benzene was	te operation NESI	1AP? (40 CFR	Part 61, Subpart FF) [☐ Yes ☑ No
					scility is one of the following	_
2812	2813		2819 2821			2833 2834
2835	2836		2842 2843			2865 2869
2873	2874		2879 2891	2892	2893 2896	2899 2911
3312	4953	- 4959	9511			
Layers:	☑ Sir	ngle-phase 🗆	Multi-phase			
Container T	ype: 🖸	Drum 🗆 Tot	Truck 🗌	Other (explain	n)	
Frequency: Quantity:	☐ Weekly	☐ Monthly ☑	Yearly \(\bigcirc \) One-1	Fime		
ls this a US	EPA "Hazar	dous Waste" per	10CFR 261.3?	☐ Ye	s 🗆 No	

/17/2009	14:19	713939312	20 	· .	POLYTEX				PAGE
•		,			ı				
lf "Yes",	then please c	omplete, sign a	and date the	Underlying	Hazardous Con	stituents For	m attached l	nereto	
if "Yes" Character	, le It: letic for Toxi] D001 (Ignitat c Metals:	ole) [000 [] 001 []		5 ☐ D006	D003 (Read		□ D009	
Character	stic for Toxi	c Organice: D	0012 (hru D(043 (please	list all that app	ly)			
		sted waste or list ALL appl			Y	es 🖸	Na		
40 CFR 26	1.33(e) or (f)			Yes 🔽	arry a "U" or "] No 	P" waste co	de under		
Texas Stat	te Waste Cod	de Nûmber:		RECYCLE	<u> </u>				
	DOT Shippi				Regulated Mat				
Class:	<u>NA</u>	_UN/NA;	NA	PG:	<u>NA</u>	_RQ:	NA		
	h Point	р			ive Sulfides	Reactive		Sol	
	150	N N		NA NA	<u>mg/l</u> Zinc	NA	mg/l	0-1 NIC	%
>1500	Grease mg/l	NA TO	mg/l	NA -	mg/l	NA I	mg/l	NA NIG	mg/l
Т	ne waste con	IPONENTS TA sists of the foll sed Hydraulic	lowing mate	rials		CONCENT Ranges are a 100	cceptable		UNITS or %
									-
	: Safety Rel		e use of spe	clal protect	ve equipment,	picaso expla	in.		

Bilge water

Rinse/wash waters from petroleum sources

7139393120



1. Base Pricing (including freight):
\$35.00/drum plus freight
<u> </u>
2. Contamination Limit (maximum limit before surchages apply):
NA NA

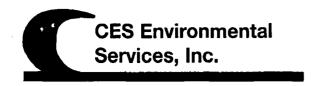
3. Surcharge Pricing:
NA

4. Special Testing Requirements:
Chlordtect, black oil compatibility, flash

5. Treatment and Handling Protocol:
Mix with black oils
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
NA	
8. Management for Product Recovered/Recycled (if applicable)	
8. Management for Product Recovered/Recycled (if applicable) NA	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Dana Carter

Date: 7/15/09

Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root

Lab Memo: 09-139

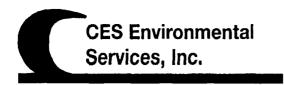
Subject: Polytex Fibers Evaluation 0709-34

A sample of black oil from Polytex Fibers, Baythorne Dr., has been evaluated for potential use in our black oil for sales at CES. This sample is evaluation 0709-34 and represents a potential of 9-10 drums of material annually. Overall, this oil looks acceptable for blending with our black oil and its acquisition is recommended.

This oil is black in appearance and contains only a trace amount of particulates that can be centrifuged out. It has a typical oil odor, an API gravity of 28, no water, and blends just fine with our typical black oil. The chlor-d-tect is an acceptable 700 ppm. This oil is recommended for acquisition and it may be blended and sold with our other black oil without issues.

The table below summarizes the analytical testing.

Polytex Fibers						
Evaluation 0709-34						
Appearance	black					
Solids, vol%	trace					
Odor	typical oil odor					
API gravity	28					
Water, %	0					
Chlor-d-tect, ppm	700					
Black Oil Blendability	Okay					



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/21/2009

Dear Mohammed Dekiouk

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3430

Expiration Date 7/21/2011

Generator: Sartomer

Address: 17335 wallisville Rd

Houston, TX 77049

Waste Information

Name of Waste: Non-hazardous waste water

TCEQ Waste Code #: 00401101

Container Type:

Detailed Description of Process Generating Waste:

Neutralization of acidic water with sodium hydroxide, evaporation, and crystalization.

Process waste water from the manufacturing of resins

Color: Amber

Odor: Slight Hydrocarbon

pH: 4-11.5

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

12 tonstro DB/MM

CES Environmental Services - Port Arthur Facility



v

CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948						CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585								
SECTION 1:	Generato	<u>or Informati</u>	<u>on</u>											
Company:	Sartome	r Company,	inc.											
Address:	17335 W	'allisville Ro	ad									_		
City:	Houston				State:	TX		_Zip:						77049
Contact:	Mohamn	ned Dekioul	(Title:		Manufact	turing N	1anager				
Phone Num	ber:	281-45	7-6757			Fax Nun	nber:	281-457-	6910					
24/hr Phon	e Number	281-45	7-6910											
US EPA ID N	lo:	TXD981	901713			-								
State ID No:	:				37739	SIC Code	: :							
SECTION 2: Company: Address:	Billing Inf	ormation -	☑ <u>Sa</u>	ne as Al	oove					-				
City:	•				itate:			Zip:						
Contact:						Title:								
Phone Num	ber:					Fax Num	iber:							
		-			-	•								
SECTION 3:			of the Waste	_	er									
Detailed De. Neutalizatio manufacturi Physical Sta	n of acidic ing of resir	water with	_	roxide, e	evaporatio ludge ilter Cake		/staliz	Powder		iste wat	er fro	m the		
Color:	Amber					Odor:		Slight Hyd	Irocarbo	on		_		
Specific Grav	vity (wate	r=1):	1-1.1					Density:		8.8 lb	s/gal			
Does this ma	aterial con	ntain any to	tal phenolic	compou	ınds?		Yes	V	No No					
Does this ma	aterial con	ntain any pa	ıra substitut	ed phen	olic comp	ounds?			Yes	√ N	0			
is the Waste	subject to	o the benze	ne waste op	eration	NESHAP?	(40 CFR F	art 6	1, Subpart	FF)] \	es/	V	No
Answer "Yes	" if your w	aste contai	ns benzene i	AND if th	ne SIC code	e from yo	ur fac	cility is one	of the	followin	g:			
2812	28	13	2816	2819	2821		2822	2823	3	2824		2833		2834
2835	28	36	2841	2842	2843		2844	285	1	2861		2865		2869
2873	28	74	2876	2879	2891		2892	2893	3	2896		2899		2911
3312	49		4959	9511										
Layers:	√ si	ingle-phase		Multi-p	hase									
Container Ty	/pe: [Drum	☐ Tote	✓ T	ruck 🔲	Other (ex	(plain)						
Frequency: Quantity:	✓ Week 2-3 loads/	-	nthly 🗌 Y	early [] One-Tir	ne								

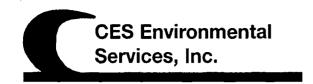
Is this a USEPA "Hazardous Waste" per 40CFR 261.3?										
•	If "Yes", Is it: D001 (Ignitable) D002 (Corrosive) D003 (Reactive) Characteristic for Toxic Metals: D004 D005 D006 D007 D008 D009 D010 D011									
Characteristic	for Toxic C	Organics: D012	thru D043 (;	olease list	all that apply)					
	Is this an "F" or "K" Listed waste or mixed with one? If "Yes", then please list ALL applicable codes: Na									
40 CFR 261.33	(e) or (f)?	duct or spill cle	Y		va "U" or "P" ☑ No Na	waste code ı	ınder			
Texas State W	aste Code	Number:				0040110	<u>1</u>			
Proper US DO	T Shipping	Name:	Non-RCRA,	Non DOT	Regulated Was	ste Water				
Class: N	a	UN/NA:	Na	PG:	Na	RQ:	Na			
Flash P	oint	рН		Reac	tive Sulfides	Reactiv	e Cyanides	Solids		
>20	0	4-11	5	0	<u>mg/l</u>	0	mg/l	0-1	%	
Oil & Gr	ease	TO	C		Zinc	Co	Copper		cel	
<1500	mg/l	<5000	mg/l	0	mg/l	0	mg/l	0	mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	90-99	%
Sodium Fluoride	1-10	%
,		
		
		_
	<u> </u>	
		
	· · · · · · · · · · · · · · · · · · ·	

SECTION 5	s: Safety Rela	ted Data				
If the hand	dling of this w	aste requires th	e use of special protec	tive equipment, please	explain.	
Level D PP		·	• •	. ,	•	
2070.071						·····
	· · · · · · · · · · · · · · · · · · ·					
SECTION 6	: Attached S	upporting Docu	monts			
				s form as part of the wa	cto	
			-	s tottil as part of the wa	216	
approval p	ackage.	Analysis (CES), Lab analysis			
SECTION 7	: Incompatib	<u>ilities</u>				
Please list	ALL incompat	ibilities (if any):				
Oxidizers						
						
SECTION 8	: Generator's	Knowledge Do	<u>cumentation</u>			
Laboratory	analysis of th	ie hazardous w	aste characteristics, list	ed below, WAS NOT PE	RFORMED	
based upor	n the followin	g generator kno	wledge:			
TCLP Meta	ls:		Analysis			
TCLP Volati	iles:	X Now	in Proces			
TCLP Semi-	Volatiles:	× None	in Process			
Reactivity:		X				
Corrosivity	:	<u> </u>				
Ignitability:	:	×				
• ,						
SECTION 9:	Waste Receip	Classification U	nder 40 CFR 437 (Prtaini	ng to Pre-Treatment Requ	irements fo	r Centralized Waste Treatment
<u>Facilities</u>)						
	Is this mater	ial a wastewater	or wastewater sludge?		✓ YES	☐ NO
	If 'Yes',	complete this sec	tion.			
	PLEASE CHEC	K THE APPROPR	IATE BOX. IF NO APPRO	PRIATE CATEGORY, GO TO	THE NEXT I	PAGE.
				,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Metals Subc	<u>ategory</u> : Sub					
Ļ		plating baths an				
	_	ng rinse water ar	d sludges			
<u> </u>	Chromate wa					
<u> </u>	Spent anodiz		vn water and sludges			
F	Incineration	•				
F	Waste liquid					
Ē			eater than 136 mg/l			
Ē	Waste acids	and bases with o	r without metals	•		
				om electroplating or phos	phating oper	rations
	Vibratory del	ourring wastewa	ter			
	Alkaline and	acid solutions us	ed to clean metal parts o	r equipment		
Oils Subcate	gory: Subpar	t B				
	Used oils					
] Oil-water em	ulsions or mixtur	es			
	Lubricants					
	Coolants					
			lean-up from petroleum :	sources		
Ļ	Used petrole				•	
⊨	Oil spill clean	-up				
<u> </u>	Bilge water					
L.,	j kinse/wash v	aters from petro	neum sources			

☐ Interceptor wastes	
Off-specification fuels	
Underground storage remediation waste	
Tank clean-out from petroleum or oily sources	
Non-contact used glycols	
Aqueous and oil mixtures from parts cleaning operations	
☐ Wastewater from oil bearing paint washes	
Organics Subcategory: Subpart C	
Landfill leachate	
☐ Contaminated groundwater clean-up from non-petroleum sources ☐ Solvent-bearing wastes	
Off-specification organic product	
Still bottoms	
Byproduct waste glycol	
Wastewater from paint washes	
Wastewater from adhesives and/or epoxies formulation	
✓ Wastewater from organic chemical product operations	
Tank clean-out from organic, non-petroleum sources	
(1)	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
it the waste contains on and grease at or in excess of 100 mg/c, the waste should be classified in the ons subcategory.	
(2)	
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in	
excess of the values listed below, the waste should be classified in the metals subcategory.	
Cadmium: 0.2 mg/L	
Chromium: 8.9 mg/L	
Copper: 4.9 mg/L	
Nickel: 37.5 mg/L	
with 373 mg 2	
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Organics Subcategory Organics Subcategory	r,
SECTION 10 Additional Instructions	
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromiur Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.	n,
SECTION 11: Generator's Certification	
The Information contained herein is based on	
I hereby certify that the above and attached description is complete and accurate to the best of	
my knowledge and ability to determine that no deliberate or willful omissions of compostion	
properties exist and that all known or suspected hazards have been disclosed. I certify that the	
materials tested are representative of all materials described by this document.	
Authorized Signature: Date: 7/17/09	
Authorized Signature: Date: +//+/04	
Printed Name/Title: Mohammed Dekiouk	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
ρ , ρ , ρ	
Compliance Officer: Kashing Williams	
Date: 7-21-09 Approved Rejected	
Approval Number:	
••	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Dan Bowman, Morgan McCarley

Cc: Matt Bowman, Prabhaker, Joe Camp, Clint Hopkins

Date: 4/02/09

From: Miles Root Lab Memo: 09-065

Subject: Sartomer Evaluation 0409-02

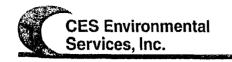
A sample of waste water from Sartomer has been tested for potential processing at CES. This sample is evaluation 0409-02 and is waste water generated from a resin process. The potential volume of this stream is two loads per week. Overall, this water can be processed at CES with no issues, other than poor odor.

This waste water is clear in appearance with an objectionable but tolerable odor. It does not flash below 140 deg F and has a pH of 9. There are no solids. The water treats easily and produces a nice floc that separates out cleanly. The phenols are 2 ppm. TOC is a low 2638 ppm. The metals are all at acceptable levels.

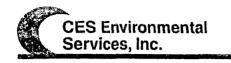
This water looks good for processing at CES. While the odor of this material is objectionable, as I said above, it is tolerable. The table below summarizes the analytical testing.

Sartomer							
Evaluation 0409-02							
Flash Point, deg F	>140						
Solids, vol%	0						
Odor	Somewhat Objectionable						
рH	9						
Phenols, ppm	2						
TOC, mg/L	2,638						
Oil, vol%	0						
Treatability	Okay						
Metals, ppm							
Ni	0.108						
Zn	0.103						
Cu	0.180						
Cd	0.082						
Cr	0.000						

Need Pricing



1. Base Pricing (including freight):
.085 /g all 1 5000 TOC
Tom 5 \$ 235 / load
·
2. Contamination Limit (maximum limit before surchages apply):
Flash LIGHT
2 Street and Date of
3. Surcharge Pricing: Cull Sales Person Dan Bowmon 7/3-854-6150
Call sales person Um Downon 113-837 613
4. Special Testing Requirements:
TOC, Flash, metals, PH, Pherol
L
5. Treatment and Handling Protocol:
wask water Treatment
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests	for Product Recovered/Recycled (if appl	licable):	
	N/A		
	•		
8. Mana	gement for Product Recovered/Recycle	d (if applicable)	
N	/A		

3431 MIC

they trended distribution as a divine second second second second

EPAHO109000052





Waste Pre-Acceptance/Approval Letter

Date 7/22/2009

Dear Bert Atkinson or Jim White

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3431

Expiration Date 7/22/2011

Generator: MIC

Address: 1801 Industrial

Brenham, TX 77833

Waste Information

Name of Waste: Oily Water TCEQ Waste Code #: 00122051

Container Type:

Detailed Description of Process Generating Waste:

Washing of machine parts

Color: Brown to black

Odor: Hydrcarbon

pH: 6-8

Physical State:

Incompatibilities: None Known

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

CES Environmental Services - Houston Facility 4904 Griggs Road, Mouston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950451 ISWR Number: 30900

CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585

<u> </u>	CECT INDUSTRIALS	olia waste Permit	Number: 30948						
SICTION	1: Generator	Information							
Company		mormation				1 - Carlo			
Address:		trial				-'			
City:	Brenham	ici (d)	Sta	ate:	TX	Zip:			77833
Contact:	Ricky Aberi	nathy			Title:	EH&S Engineer			77633
Phone Nu		979-337-7071				979-830-0402			
	one Number:	979-525-7504			· ox (valider.	373-038 0402			
US EPA II		313 323-1304			•				
State ID I				25044	SIC Code:				
3.01.01.01	10.			003	Jie cone.				
SELTION	2: Billing Info	rmation - [7]	Same as Abor	ve					
Company		THE COURT	38111C 431100	-					
Address:	·								
City:			Str	ate:		Zip:			
Contact:					Title:		_		
Phone Nu	mbarr				Fax Number:				
riphe at	moer.				rax Montiber.				
SELTION	3. Ganomi Do	scription of the 1	Macta						
3EV TION	J. GENERALDE	acription of the	WB3te						
Name of	Warte.	Oily Water							
4		Process General	ing Master					-	
Delaneu	Description of	Lincés? Acualar	ing waste.						
Washing	of machine par	nte							
vvasinilg (or machine par	13						_	
Physical S	State: 🗵	Liquid	C SI	ıdge	П	Powder			
L HAZINGE .	, tote.	Solid		ter Cake		Combination			
		Sand		ee, canc	ت .	Comonigation			
Colbr:	Brown to b	lack	•		Odor:	hydrocarbon			
COIP".	B10411 t0 0	Idek			Judi.	mydrocardon			
Specific 6	iravity (water-	:1):	.99 -1			Density:	8.34 lbs/ga	d	
Jp come c	and the factor					- Charty			
Dods this	material cont	ain any total phe	nolic compour	de?	☐ Yes	☑ No			
	materioi com	am any total pile	mone compoun		ري. دي				
Does this	material cont	ain any para sub	stituted pheno	lic comp	nunds?	☐ Yes	☑ No		
7	material com	om any para san	stituted pheno		Janas.		<u> </u>		
Is the Wa	ste subject to	the benzene wa:	ste operation N	FSHAP?	IAN CER Part 6	1 Subnart FF)		/es	☑ No
	_		•			cility is one of the			
28			2819	2821	2822		2824	2833	2834
28			2842	2843	2844	_	2861	2865	2869
28			2879	2891	7892		2896	2899	2911
33			9511	4031	2032	2030	2000	2000	
	¥2 433	J	2312						
Layers:	☐ Sine	le-phase	☑ Multi-pha	se.					
Caydis.	J.i.g	ic pitase	□ West-pine						
Conjaine	rTvoe:	Drum 🗹	Tote 🔲 Tri	uck 🗀	Other lexidai	n)			
201,101112		D. 5.1.1.1			• Inc. (capie.	•••			
Frechiens	v: Weeklu	☐ Monthly	☑ Yearlv □	One-Tin	ne				
Quantity			10	₽,,,⊊°, III	•••				
-drainty	·								
is the all	ISEPA "Harard	ous Waste" per	40CFR 261.37		☐ Yes	☑ No			
		Truste per			٠	٠٠			

	f "Yes", then please con	nplete, sign and date the Und	erlying Haza	rdous Co nstitue	ents Form attached heret	a	
C	If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto f "Yes", is it:						
	s this an "F" or "K" Listed waste or mixed with one? "Yes", then please list ALL applicable codes:			☐ Yes			
40	Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?						
Te	ekas State Waste Code Number: 00122051						
	roper US DOT Shipping Name: Non-RCRA, Non-Hazardous Liquid (oily water) lass: N/A UN/NA: N/A PG: N/A RQ: N/A						
	Flash Point	pH	Reacti	ve Sulfides	Reactive Cyanides	Soli	ids
	>150	6-8	BRL	mg/l	BRL mg/l	8-15	%
H	Oil & Grease	>1500 mg/l	<.5	Zinc mg/l	Copper <.5 mg/l	Nicl	kel mg/l
SE	TION 4: Physical and	Chemical Data					
L		APONENTS TABLE			CONCENTRATOIN		UNITS
┡	The waste cons	ists of the following materia Oil	<u> </u>		Ranges are acceptable 20-74		or %
┢		Water				%	
			1-10			%	
<u> </u>	<u></u>	olids (dirt, dust)			5-20		%
┝							
┝							
<u> </u>							
<u> </u>	 						
1	 						
_			<u> </u>				
-				_			
	- 10N 5: Safety Relate ht handling of this was	<u>ed Data</u> ste requires the use of spec	ial protectiv	re equipment, (please explain.		

Jul-21-	-09 02:51pm F	rom-MIC GROUP	979 830 0402	T-327 P.003/004	! F-
	Level D				
					
	+				
	SECTION 6: Attac	ched Supporting Documents			
			ched to this form as part of the waste		
	approval package	Lab Memo#09-123, analty	yical #T0906137		
	SECTION 7: Incom				
		compatibilitles (if any):			
	None Known				
					
		erator's Knowledge Documentatio			
			eristics, listed below, WAS NOT PERFORMED		
	based upon the 10	ollowing generator knowledge:			
	TCLP Metals:	Not Regulated			
	TCIP Volatiles:	Not Regulated			
	TCLP Semi-Volatile				
	Reactivity:	Non-Reactive			
	Corrosivity: Ign tability:	Non-Corrosive >200			
	ignicability.	7200			
	SECTION 9: Waste	Receipt Classification Under 40 CFR	437 (Prtaining to Pre-Treatment Requirements for	or Centralized Waste Trea	itmen
	<u>Facilities)</u>		overlands.	□ .	
		s material a wastewater or wastewate f Yes', complete this section.	cr sludge? YES	IJ NO	
	PLEA	SE CHECK THE APPROPRIATE BOX. IF	F NO APPROPRIATE CATEGORY, GO TO THE NEXT	F PAGE.	
	Metals Subcategor				
		t electroplating baths and/or sludges of finishing rinse water and sludges			
		mate mastes at uniquing times mater and singles			
		ollution control blow down water and	l sludges		
		t anodizing solutions eration wastewaters			
		te liquid mercury			
		ide-containing wastes greater than 13			
		te acids and bases with or without me ning, rinsing, and surface preparation	ctals solutions from electroplating or phosphating ope	erations	
	☐ Vibra	story deburring wastewater			
	☐ Alƙali	ine and acid solutions used to clean m	netal parts of equipment		
	Oils Subcategory:	Subpart 8			
	Used				
	U Oil-wi □ Lubrid	rater emulsions or mixtures			
	Coola				
		aminated groundwater clean-up from	i petroleum sources		
		petroleum products pill clean-up			
	☐ Bilge	water			
	Rinse	/wash waters from petroleum source	<u>2</u> 5		

Jul-21-09

(1)

(2)

(3)

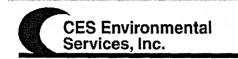
02:51pm

	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
<u>SEC</u>	ON 10 Additional Instructions
If yo	i cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
Copp	er, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This
will #	e prior to acceptance. The generator will be responsible for the cost of the analysis.
SECT	ION 11: Generator's Certification
	nformation contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
	eby certify that the above and attached description is complete and accurate to the best of
	nowledge and ability to determine that no deliberate or willful omissions of compostion
- 1	erties exist and that all known or suspected hazards have been disclosed. I certify that the
	rials tested are representative of all materials described by this document.
	l ' '
Print	ed Name/Title: Ricky Abernathy EH+S Engineer
CES	SE ONLY (DO NOT WRITE IN THIS SPACE)
Com	pliance Officer: Roll Styde
Date	7-22-09
Appr	pval Number: 3431

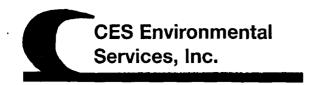


1. Base Pricing (including freight):
\$0.75 / gallon, \$70 / hr transportation + FSC w/ 4 hr min
<u></u>
2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Put in Class 1 sludge box to Will Cupullic
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joe Camp

Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

Date: 6/19/09

From: Miles Root

Lab Memo: 09-123

Subject: MIC Group Evaluation 0609-28

A sample of oily water from MIC Group has been evaluated for potential processing at CES. This sample is evaluation 0609-28 and is said to contain water, oil and soap. This material represents 500 gallons of material three times per quarter. Overall, the oil from this sample does not pass the chlor-d-tect test, so we cannot handle it here at CES.

This sample by centrifuge contains 50% oil, 10% rag, 8% solids and 32% water. The sample comes as an emulsion but can be broken out with standard heat and acid treat. The water treats easily and forms a nice floc. The phase separated oil has a chlor-d-tect value of over 4000 ppm, which does not even allow for a rebuttal to potentially accept this oil. At the 4000 ppm endpoint this sample was not even close to changing color for an endpoint, so the chlor-d-tect value is much greater than 4000 ppm. Since we cannot receive oil with this level of organic chlorides no further work was performed.

Class I Liquies

PîL filder

1801 Industrial Brunham, H 19833

Jennifer Rust

From: Sent:

Ricky Abernathy [rabernathy@micgrp.com] Wednesday, July 15, 2009 10:43 AM

Jennifer Rust

Subject: Attachments:

To:

waste code&lab results

T09060137.pdf

New Folder?

Pal?

Profile

Waste code 0012 205 1

Class 1

.75/gallin

We do have a couple of questions for you also, I will call you tomorrow. If you have any questions-left me know

Ricky Abernathy

Environmental, Health & Safety Engineer MIC Group, Brenham, TX office (979)-337-7071 cell (979)-525-7504 fax (979)-830 0402

rabernathy@micgrp.com

Send oil; water

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ANALYTICAL SUMMARY REPORT

July 14, 2009

Ricky Abernathy MIC Group 1801 Industrial Blvd Brenham, TX 77833-5236

Workorder No.: T09060137

Quote ID: T1784 - Waste Characterization

Project Name:

Sump Tank

Energy Laboratories Inc. received the following 1 sample for MIC Group on 6/29/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
T09060137-001	Sump Tank	06/29/09 11:15	5 06/29/09	2-Phase	Metals, TCLP Extractable Cyanide, Reactive Mercury, TCLP Flashpoint Total Petroleum Hydrocarbons pH of Liquid Waste
					Digestion, Total Metals Prep for TNRCC 1005 Water Sulfide, Reactive TCLP Extraction, Non-volatiles

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

cn=Gary Pudge, o=Energy Laboratories, Inc., ou=Branch Manager, email=gpudge@energylab.com, c=US

I am approving this document

Report Approved By: 2009.07.14 12:36:44 -05'00

LABORATORY ANALYTICAL REPORT

Client:

MIC Group

Project:

Sump Tank

Lab ID:

T09060137-001

Client Sample ID: Sump Tank

Report Date: 07/14/09

Collection Date: 06/29/09 11:15 DateReceived: 06/29/09

Matrix: 2-Phase

Analyses	R	esult	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES								
Flash Point (Ignitability)	>2	200	°F		30		SW1010A	07/01/09 14:00 / eli-b1
REACTIVITY								
Sulfide, Reactive	N	1D	mg/kg		20.0	500	SW846 Ch 7	07/02/09 08:00 / eli-b
Cyanide, Reactive	٨	ND	mg/kg		1.0	250	SW846 Ch 7	07/06/09 12:44 / eli-b1
METALS, TCLP EXTRACTA	BLE							
Antimony	N	1D	mg/L		0.5		SW6020	07/06/09 21:51 / eli-b5
Arsenic	· • • • • • • • • • • • • • • • • • • •	1D	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
Barium	A	ID -	mg/L	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co	10	100	SW6020	07/06/09 21:51 / eli-b5
Beryllium	Ň	ID .	mg/L		0.1		SW6020	07/06/09 21:51 / eli-b5
Cadmium	· · · · · · · · · · · · · · · · · · ·	1D	mg/L		0,1	1	SW6020	07/06/09 21:51 / eli-b5
Chromium	N .	ID 💮	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
Lead	Maria Seri	ID 🦪	mg/L)	0.5	5	SW6020	07/06/09 21:51 / eli-b5
Mercury	N	ID .	mg/L		0.02	0.2	SW7470A	07/06/09 10:38 / eli-b1
Nickel	, , , , , , , , , , , , , , , , , , ,	ID :	mg/L		0.1		SW6020	07/06/09 21:51 / eli-b5
Selenium	· N	ID	mg/L	806	0.1	1	SW6020	07/06/09 21:51 / eli-b5
Silver		ID .	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
TOTAL PETROLEUM HYDR	OCARBONS						X	
nC6 to nC12	1	10	mg/L	J	100		TNRCC1005	07/02/09 14:46 / rjh
>nC12 to nC28	Liverson St. 1 St. 1)50	mg/L		100		TNRCC1005	07/02/09 14:46 / rjh
>nC28 to nC35	A1000	100	mg/L		100		TNRCC1005	07/02/09 14:46 / rjh
Total Petroleum Hydrocarbons	100 A 100 A	60	mg/L		100		TNRCC1005	07/02/09 14:46 / rjh
Surr: o-Terphenyl		0	%REC	0	70-130		TNRCC1005	07/02/09 14:46 / rjh
Surr: Trifluorotoluene		0	%REC	0	70-130		TNRCC1005	07/02/09 14:46 / rjh
-Headspace present in sample co	mamer for the analys	is. Sai	npie not prese	erveu to pm<2,				
PH OF LIQUID WASTE				***************************************				
pH	o	43	s.u.		0.100		SW9040C	06/30/09 16:30 / eli-b1

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

O - Diluted out.

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09

Work Order: T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Batch:	B_39893
Sample ID: MB-39893	<u>10</u> Me	thod Blank				Run: SUB-B	132317		07/06	/09 20:55
Antimony		8E-05	mg/L	2E-05						
Arsenic		0.0002	mg/L	2E-05						
Barium		3E-05	mg/L	2E-05						
Beryllium		ND	mg/L	2E-05						
Cadmium		4E-05	mg/L	5E-06						
Chromium		0.0006	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Nickel		7E-05	mg/L	2E-05						
Selenium		3E-05	mg/L	2E-05						
Silver		3E-05	mg/L	2E-05						
Sample ID: MBS-39893	<u>10</u> Lat	oratory For	tified Blank			Run: SUB-B	132317		07/06	/09 21:02
Antimony		0.504	mg/L	0.50	101	75	125			
Arsenic		0.504	mg/L	0.50	101	75	125			
Barium		5.36	mg/L	1.0	97	75	125			
Beryllium		0.258	mg/L	0.50	103	75	125			
Cadmium		0.260	mg/L	0.10	104	75	125			
Chromium		0.523	mg/L	0.50	104	75	125			
Lead		0.512	mg/L	0.50	102	75	125			
Nickel		0.532	mg/L	0.50	106	75	125			
Selenium		0.506	mg/L	0.10	101	75	125			
Silver		0.0495	/ mg/L	0.50	99	75	125			
Sample ID: MBSD-39893	<u>10</u> Lat		lified Blank Di	uplicate		Run: SUB-B	132317			/09 21 :09
Antimony		0.515	mg/L	0.50	103	75	125	2.3	20	
Arsenic		0.511	mg/L	0.50	102	75	125	1.5	20	
Barium		5.47	mg/L	1.0	99	75	125	1.9	20	
Beryllium		0.263	mg/L	0.50	105	75	125		20	
Cadmium		0.266	mg/L	0.10	106	75	125	2.1	20	
Chromium		0.530	mg/L	0.5 0	106	75	125	1.2	20	
Lead		0.516	mg/L	0.50	103	75	125	1	20	
Nickel		0.541	mg/L	0.50	108	75	125	1.8	20	
Selenium		0.516	mg/L	0.10	103	75	125	2.1	20	
Silver		0.0517	mg/L	0.50	103	75	125		20	
Sample ID: T09060137-001A	<u>10</u> Ser	ial Dilution				Run: SUB-B	132317		07/06/	/09 21 :58
Antimony		0.00112	mg/L	0.50		0	0		10	N
Arsenic		0.00549	mg/L	0.50		0	0		10	
Barium		0.133	mg/L	1.0		0	0		10	
Beryllium		ND	mg/L	0.50		0	0		10	
Cadmium		0.000696	mg/L	0.10		0	0		10	N
Chromium		0.00895	mg/L	0.50		0	0		10	
Lead		0.00339	mg/L	0.50		0	0		10	N
Nickel		0.0703	mg/L	0.50		0	0		10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

The results represented within this report relate only to the samples as submitted.

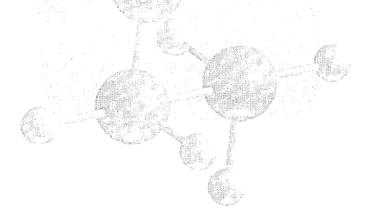
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NELAP # T104704347-08-TX Page 3 of 9

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09 **Work Order:** T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Batch	B_39893
Sample ID: T09060137-001A	<u>10</u> Se	rial Dilution				Run: SUB-B	132317		07/06	/09 21:58
Selenium		0.000608	mg/L	0.10		0	0		10	N
Silver		ND	mg/L	0.50		0	0		10	
Sample ID: T09060137-001A	<u>10</u> Sa	mple Matrix	Spike			Run: SUB-B	132317		07/06	/09 22:05
Antimony		0.456	mg/L	0.50	91	75	125			
Arsenic		0.510	mg/L	0.50	101	75	125			
Barium		5.43	mg/L	1.0	96	75	125			
Beryllium		0.248	mg/L	0.50	99	75	125			
Cadmium		0.258	mg/L	0.10	103	75	125			
Chromium		0.529	mg/L	0.50	105	75	125			
Lead		0.513	mg/L	0.50	102	75	125			
Nickel		0.612	mg/L	0.50	109	75	125			
Selenium		0.426	mg/L	0.10	85	75	125			
Silver		0.0493	mg/L	0.50	. 99	75	125			



Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09

Work Order: T09060137

Analyte	•	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020				· 				Analytica	l Run: SUE	3-B132317
Sample ID:	ICSA-ME090423A	<u>10</u> Inte	erference C	heck Sample A	\					07/06	/09 17:06
Antimony			0.00265	mg/L	0.0010						
Arsenic			8.67E-05	mg/L	0.0010						
Barium			8.76E-05	mg/L	0.0010						
Beryllium			8.50E-06	mg/L	0.0010						
Cadmium			0.000552	mg/L	0.0010						
Chromium			0.000937	mg/L	0.0010						
Lead			0.000527	mg/L	0.0010						
Nickel			0.000593	mg/L	0.0010						
Selenium			6.64E-05	mg/L	0.0010						
Silver			8.55E-05	mg/L	0.0010						
Sample ID:	ICSAB-ME090423A,09	<u>10</u> Inte	erference C	heck Sample A	νВ					07/06	/09 17:14
Antimony			0.00195	mg/L	0.0010		0	0			
Arsenic			0.00973	mg/L	0.0010	97	70	130			
Barium			7.45E-05	mg/L	0.0010		0	0			
Beryllium			7.50E-06	mg/L	0.0010		0	0			
Cadmium			0.00965	mg/L	0.0010	96	70	130			
Chromium			0.0216	mg/L	0.0010	108	70	130			
Lead			0.000495	mg/L	0.0010		0	. 0			
Nickel			0.0207	mg/L	0.0010	103	70	130			
Selenium			0.00929	mg/L	0.0010	93	70	130			
Silver			0.0179	mg/L	0.0010	90	70	130			
Sample ID:	QCS-090602A,090401	10 Initi	al Calibrati	on Verification	Standard		X			07/06	/09 18:16
Antimony			0.0467	mg/L	0.0010	93	90	110			
Arsenic			0.0483	mg/L	0.0010	97	90	110			
Barium			0.0495	mg/L	0.0010	99	90	110			
Beryllium			0.0239	mg/L	0.0010	95	90	110			
Cadmium			0.0253	mg/L	0.0010	101	90	110			
Chromium			0.0494	mg/L	0.0010	99	90	110			
Lead			0.0492	mg/L	0.0010	98	90	110			
Nickel			0.0502	mg/L	0.0010	100	90	110			
Selenium			0.0475	mg/L	0.0010	95	90	110			
Silver			0.0265	mg/L	0.0010	106	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Client: MIC Group Project: Sump Tank **Report Date:** 07/14/09 **Work Order:** T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A									Batch:	B_39867
Sample ID: MB-39867	Met	hod Blank				Run: SUB-B	132263		07/06	09 10:30
Mercury		ND	mg/L	0.0005						
Sample ID: MBMS-39867	Sam	nple Matrix	Spike			Run: SUB-B	132263		07/06	09 10:34
Mercury		0.010	mg/L	0.020	104	75	125			
Sample ID: MBMSD-39867	Sam	nple Matrix	Spike Duplica	te		Run: SUB-B	132263		07/06	09 10:36
Mercury		0.0098	mg/L	0.020	98	75	125		20	
Sample ID: T09060137-001A	Seri	al Dilution				Run: SUB-B	132263		07/06/	09 10:41
Mercury		ND	mg/L	0.020		0	0		20	N
Sample ID: T09060137-001A	Sam	nple Matrix	Spike			Run: SUB-B	132263		07/06/	09 10:43
Mercury		0.010	mg/L	0.020	100	75	125			
Sample ID: T09060137-001A	Sam	iple Matrix	Spike Duplica	te		Run: SUB-B	1132263		07/06/	09 10:45
Mercury		0.0098	mg/L	0.020	98	75	125		20	
Method: SW7470A	<u>.</u>			337	et la suit			Analytic	al Run: SUB	B132263
Sample ID: QCS	Initia	al Calibratio	on Verification	Standard					07/06/	09 10:18
Mercury		0.0021	mg/L	0.020	107	90	110			
Method: SW846 Ch 7		21.							Batch:	B_39863
Sample ID: MB-39863	Meth	hod Blank				Run: SUB-B	132296		07/06/	09 12:40
Cyanide, Reactive		ND	mg/kg	0.05						
Method: SW846 Ch 7	46.								Batch: B	R132182
Sample ID: MB-R132182	Meth	hod Blank		V.		Run: SUB-B	132182		07/02/	09 08:00
Sulfide, Reactive		ND	mg/kg	10						
Sample ID: LCS-R132182	Labo	oratory Cor	trol Sample		Ž.	Run: SUB-B	132182		07/02/	09 08:00
Sulfide, Reactive		20.0	mg/kg	20	69	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

The results represented within this report relate only to the samples as submitted.

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NELAP # T104704347-08-TX Page 6 of 9

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09 **Work Order:** T09060137

Method: TNRCC1005 Sample ID: CCV_0701HPT03r-W Total Petroleum Hydrocarbons Surr: o-Terphenyl Surr: Trifluorotoluene Method: TNRCC1005 Sample ID: MB-9499 nC6 to nC12		10.6	bration Verificatio mg/L	n Standar 1.1 1.1 1.1	92 91 98	75 70 70	Ana 125 130 130	alytical Rur	n: GCFID_1 07/02	_090702A /09 10:37
Total Petroleum Hydrocarbons Surr: o-Terphenyl Surr: Trifluorotoluene Method: TNRCC1005 Sample ID: MB-9499		10.6		1.1 1.1	92 91	70	130		07/02	/09 10:37
Surr: o-Terphenyl Surr: Trifluorotoluene Method: TNRCC1005 Sample ID: MB-9499	<u>6</u> Me	thod Blank	mg/L	1.1	91	70	130			
Surr: Trifluorotoluene Method: TNRCC1005 Sample ID: MB-9499	<u>6</u> Me									
Method: TNRCC1005 Sample ID: MB-9499	<u>6</u> Me			1.1	98	70	130			
Sample ID: MB-9499	<u>6</u> Me									
•	<u>6</u> Me								Ва	atch: 9499
nC6 to nC12						Run: GCFIE	_1_090702A		07/02	/09 11:12
1100 10 110 12		ND	mg/L	1.1						
>nC12 to nC28		ND	mg/L	1.1						
>nC28 to nC35		ND	mg/L	1.1						
Total Petroleum Hydrocarbons		ND	mg/L	1.1						
Surr: o-Terphenyl				1.1	94	70	130			
Surr: Trifluorotoluene				1.1	100	70	130			
Sample ID: LCS-9499	3 Lat	oratory Con	trol Sample			Run: GCFID	_1_090702A		07/02	/09 11:34
Total Petroleum Hydrocarbons		54.7	mg/L	1.1	96	75	125			
Surr: o-Terphenyl				1.1	98	70	130			
Surr: Trifluorotoluene				1,1	101	70	130			
Sample ID: LCSD-9499	3 Lat	oratory Con	trol Sample Dupli	cate		Run: GCFIE	_1_090702A		07/02	/09 11:55
Total Petroleum Hydrocarbons		54.3	mg/L	1.1	95	75	125	8.0	20	
Surr: o-Terphenyl				1.1	96	70	130	0	20	
Surr: Trifluorotoluene				1,1	99	70	130	0	20	
Sample ID: T09060109-001BMS	3 Sar	mple Matrix	Spike			Run: GCFID	_1_090702A		07/02	/09 12:38
Total Petroleum Hydrocarbons	150	58.8	mg/L	1.1	100	75	125			
Surr: o-Terphenyl				1.1	102	70	130			
Surr: Trifluorotoluene	(A	7	The state of the s	1,1	104	70	130			
Sample ID: T09060109-001BMSE) <u>3</u> Sar	nple Matrix	Spike Duplicate		Į.	Run: GCFID	_1_090702A		07/02	/09 12:59
Total Petroleum Hydrocarbons		58 <i>.</i> 1	mg/L	1.1	98	75	125	1.2	20	
Surr: o-Terphenyl			-	1.1	101	70	130	0	20	
Surr: Trifluorotoluene				1.1	103	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Energy Laboratories Inc Workorder Receipt Checklist



MIC Group

Login completed	by: Sarah A. Mims		Date and Time	e Received: 6/29/2009 12:45 PM
Reviewed by:	BL2000\treed		Re	eceived by: trr
Reviewed Date:	7/2/2009 8:49:04 AM		Ca	rrier name: Hand Del
Shipping container/c	ooler in good condition?	Yes ☑	No 🗌	Not Present
Custody seals intact	on shipping container/cooler?	Yes 🗌	No 🗌	Not Present ✓
Custody seals intact	on sample bottles?	Yes 🗌	No	Not Present ✓
Chain of custody pre	esent?	Yes ☑	No □	
Chain of custody sig	ned w hen relinquished and received?	Yes [∕]	No 🔲	
Chain of custody agr	ees w ith sample labels?	Yes [√]	№ □	
Samples in proper co	ontainer/bottle?	Yes [√]	No □	
Sample containers in	tact?	Yes ☑	No 🔲	
Sufficient sample vol	lume for indicated test?	Yes ☑	No □	
All samples received	w ithin holding time?	Yes ☑	No □	
Container/Temp Blan	nk temperature:	25.9°C On lce/	From Field	
Water - VOA vials ha	ive zero headspace?	Yes 🗌	No ☑	No VOA vials submitted
Water - pHacceptab	le upon receipt?	Yes [√]	No □	Not Applicable

Contact and Corrective Action Comments:

pH of preserved fractions acceptable, VOA vials contained significant amount of headspace. Receipt temperature checked with IR2. SAM 06/30/09 9:13

Proceed with analysis per Ricky Abernathy. SAM 07/02/09 8:31

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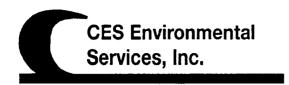
LIVERGY LABORATORIES	Chain of	f Cust	ody an	d A	nal	yti	ca	IR	eq	ue	st	Re	CO	rd		Pag	ge of	•
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MIC Group			SUM			Luk	_						- 1	•	: TX	Yes [-	
Report Mail Address:			Contact Na		<u> (</u>			/Fax:		- -			!-	Email	<u>:</u>	Sampl	er: (Please Pr	int)
1861 Industrial Blud			Ricky		1	lbe	rnc	eth	(9 14	79) 33	57-	107	,	raber	nathy@micarp.co	n Bi	ckuAb	ern
Invoice Address: 1801 Industrial	Blud		Invoice Cor	tact & I	Phone	9:			,					Purch	nase Order:	Quote 33.	/Bottle Order: 3 <i>5</i>	
Special Report/Formats - EL	l must be noti	fied	0	Δ		TA8	181	RE(3 W[SI	ŒD			_	Contact ELI prior		Shipped by:	1
prior to sample submittal for t	ne following:		ntainers W S V B O s/Solids ssay Other									印	(TAT)	R U	for charges and scheduling – See Instruction Page		Cooler ID(s):	
GSA II	A2LA EDD/EDT(Elect Format: LEVEL IV NELAC	tronic Data)	Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other									SEE ATTACHED	Normal Turnaround (TAT)	S	Comments: RUS	H	On los Yes N Custody Seal Bottles/	°c
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time											2	H			Coolers Intact Signature Match	Y N Y N
SUMP Tank	6/29/09	11:15 AM							A 1 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								\$5901013	27-001
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Record Relinquished by (print): Record Relinquished by (print): Relinquished by (print):	Date/Time Date/Time	59 12:45	Rick Signa	iture: LGLe Gre:	uS	Ug	_	Receive						ate/Time		Signa		
MUST be			· -					Receiv				1		ite/Tirrje		Signa	ture	- 1
Signed Sample Disposal: R	Return to Client:		Lab Dispos	sal:				Tur	m	eth	ecc		bk	32/0	a 1345 j	m	KHEN	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

3432 Bioselect Fivels Inc



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/23/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3432

Expiration Date 7/23/2011

Generator: Bioselect Fuels, Inc

Address: 4800 Old Port Industrial Rd

Galveston, TX

Waste Information

Name of Waste: Absorbent & Debris TCEQ Waste Code #: 00121921

Container Type:

25 yd. box

Detailed Description of Process Generating Waste:

Used absorbent from cleaning up biodiesel on the ground

Color: Brownish

Odor: Mild

pH: Na

Physical State:

Incompatibilities: Na

Safety Related Data/Special Handling:

PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



#3428

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 15 star

SECTION 1: Gene	erator Information			
Company:	BioSelect (Galvestor	n Bay BioDiesel)		
Address:	4828 Old Port Indust			
City, State, Zip:	Galveston, Texas 77	554		
Contact:	Steve Sams		Title:	Auth. Broker For Generator
Phone No:	281-838-3400		Fax No:	281-424-7748
24/hr Phone:	281-838-3400		_	
U.S. EPA I.D. No:	TXR000079137		-	
State I.D.	88510		SIC Code:	
SECTION 2: Billin	ng Information - Sa	me as Above trol & Environmental Serv	-	
Address:	4808 Fairmont Parkwa		ices, me.	
	Pasadena, Texas 77505			
City, State, Zip:		Title:	Accounting	
	Connie Fetgatter		Accounting	
Phone No:	281-838-3400	Fax No:	281-424-7748	
SECTION 3: Gene	eral Description of the	Waste		
Name of Waste: <u>A</u> Detailed Descriptio		g Waste: Used absorbent	from cleaning u	p biodiesel on the ground.
Physical State:	Liquid Liquid	☐ Sludge ☐	Powder	
t ujoioni stati	Solid	Filter Cake	Combination	
	≥0110	rinter Cake		л
Color: Brow	wnishO	lor: <u>Mild</u>		
Specific Gravity (w	rater=1): <u>N/A</u>	Density: N/A lbs/gal		
Layers:	⊠ Single-phase	Multi-phase		-
Container Type:	☐ Drum	☐ Tote ☐	Truck	Other (explain)
Container Size:	_	-	•	25 Yd. Box
Container Size.				131 237
Frequency:	Weekly	☐ Monthly ⊠	Quarterly	☐ Yearly
Number of Units (c	• —	Other:		
Texas State Waste	Code No:	00121921		
Proper U.S. DOT S	11 0	Absorbent & Debris		
Class: NA	UN/NA	· NA	PG: N	A RQ: NA
 				
	- I 7',		D	(3.2)
Flash Point	, - ,	Reactive Sulfides	Reactive C	
N/A		N/Amg/I	N/Amg/I	100% Nickel
Oil&Grease	TOC	Zinc N/Amg/I	Copper N/Amg/I	N/Amg/I

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Absorbent		80%
Debris		20%
		_
		
		

L	Debtio	2070
ļ		
ļ		
-		
	SECTION 5: Safety Related Data If the handling of this waste requires the use of special protective equipment, please explain. PPe	
	SECTION 6: Attached Supporting Documents	
	List all documents, notes, data, and/or analysis attached to this form as part of the waste app $\underline{N/A}$	oroval package.
	SECTION 7: Incompatibilities	
ı	Please list all incompatibilities (if any): N/A	
	SECTION 8: Generator's Knowledge Documentation	
	Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFO generator knowledge:	RMED based upon the following
	TCLP Metals: X TCLP Volatiles: X TCLP Semi-Volatiles: X Reactivity: X Corrosivity: X Ignitability: X	
	SECTION 9: Generator's Certification	
	The information contained herein is based on \(\subseteq \text{generator knowledge and/or } \subseteq \text{ analytical data.} \) attached description is complete and accurate to the best of my knowledge and ability to deteomissions of composition properties exist and that all known or suspected hazards have been ditested are representative of all materials described by this document.	ermine that no deliberate or willfu
	Authorized Signature: Date: 07	7/14/09
	Printed Name/Title: Steve Sams / Auth. Broker For Generator	
Γ	CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
	Compliance Officer: Robbert Additional Information:	
	Date: 7-23-2009 Approved Rejected	
	Approval Number: 2422 2732	

SECTION 10: Waste Receipt Classification Under 40 CFR 437
Is this material a wastewater or wastewater sludge? YES NO
If 'Yes', complete this section.
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory: Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C
□ Landfill leachate □ Contaminated groundwater clean-up from non-petroleum sources □ Solvent-bearing wastes □ Off-specification organic product □ Still bottoms □ Byproduct waste glycol □ Wastewater from paint washes □ Wastewater from adhesives and/or epoxies formulation □ Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess

of the values listed below, the waste should be classified in the metals subcategory.

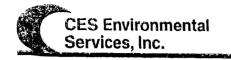
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory
Organics Subcategory

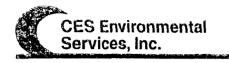
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$165/yd
·
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
4. Special results requirements.
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: Class 1 solids
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

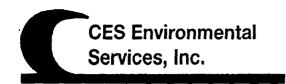
7. Tests for Product Re	ecovered/Recycled (if applicable):	
8. Management for Pr	roduct Recovered/Recycled (if applicable	e)



POLLUTION CONTROL & ENVIRONMENTAL SERVICES, INC.

To:	Morgan		From:	Steve	
Faxc	713-748-8664		Pages:	7	
Phone	e:		Date:	07/14/09	
Re:	Absorbent Profile		CC:		
× Urge	ent For Review	☐ Please Cor	nment	☐ Please Reply	☐ Please Recycle
Morga	an,				
	raiting on the waste code day if possible.	for this profile. W	Vould like	to bring this waste	stream into your facility
Thank	(S,				
Steve					

720 Independence Parlway North Baytown Jr. 77520 *Office: 281-838-3400* Fax: 281-424-7748



Waste Pre-Acceptance/Approval Letter

Date 7/17/2009

Dear Accounts Payable- Donna Landry

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3433

Expiration Date 7/17/2011

Generator: T.T. Barge (Mile 183)

Address: 7324 Hwy. 405

Donaldsonville, LA 70346

Waste Information

Name of Waste: Barge cleaning contact water

TCEQ Waste Code #: OUTS101H

Container Type:

Detailed Description of Process Generating Waste:

Cleaning of barges

Color: Varies Odor: Non pH: 4-10

Physical State:

Incompatibilities: None unknown **Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

Houston DC/LS

.S. EPA ID N	4904 Grigg Phone (713) 6 Jumber: TXD00	ntal Services - Houston Fars S Road, Houston, TX 77021 76-1460 Fax: (713) 676-1 18950461 ISWR Numbor Idid Waste Permit Number	l 460 er: 30900	24 Pho	nvironmental Services - Port Arthur Fr 20 S. Gulfway Dr., Port Arthur, TX 776 one (713) 676-1460 Fax: (713) 676-14 Number: TXR000079307 ISWR Nu	41
ompany:	Generator II T.T. Barge M	1ile 183				
ddress: ity:	7324 Highw Donaldsonv		State:	LA	Zìp:	70346
ontact:	Chuck Metz			Title:	E/S	70340
hone Num		225.473.8222			225-473-2199	
		800-969-8860				
1/hr Phon	e Number:	000-909-8860				
•		LAD980870794		-		
4/hr Phon S EPA ID N ate ID No	lo:			SIC Code:	NA	
S EPA ID Notate	Billing Information T.T. Barge A 19368 Hwy Convington	LAD980870794 D0022 mation - Same ttn: Accounts Payable 36	as Above State:	LA	NA Zip:	70433
S EPA ID Note that the second	Billing Information T.T. Barge A 19368 Hwy Convington Donna Land	LAD980870794 D0022 mation - Same ttn: Accounts Payable 36		LA Title:		70433

Adaress: City:	Convington			State:	LA .	_	Zip:			-	70433
Contact:	Donna Land			_ Jeace.	Title:	_					70433
Phone Nur		225-473-8222	2		_	r:	225-473-2199				
SECTION 3	: General De	scription of the	Waste		_						
Name of W	/aste:	Barge cleanin	g contact wa	ter						_	
Detailed D	escription of	Process Genera	ting Waste:					-			
cleaning of	barges					_			 -		
Physical St	ate: 🗹	Liquid Solid		Sludge Filter Cak	e []	Powder Combination				
Color:	varies			_	Odor:		none				
Specific Gr	avity (water=	:1):			<u>1</u>		Density:	8.34 lbs/	'gal		
Does this r	naterial cont	ain any total ph	enolic comp	ounds?	□ Y	'es	☑ No				
Does this r	naterial cont	ain any para su	bstituted ph	enolic com	pounds?		Yes	☑ No			
		the benzene was	-		•		1, Subpart FF)	E following:	Yes	V	No
281	2 281	3 2816	2819	282	1 28	22	2823	2824	2833		2834
283		6 2841	. 2842	284	3 28	44	2851	2861	2865		2869
287					1 28	92	2893	2896	2899		2911
331	2 495	3 4959	9511								
Layers:	☑ Sin	gle-phase	☐ Mult	i-phase							
Container '	Туре: 🗌	Drum 🗌	Tote 🔽	Truck [Other (expl	air	n)				
Frequency	: 🗹 Weekly	y 🗌 Monthly	☐ Yearly	One-1	Гime						

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto								
If "Yes", Is it: D001 (Ignitable) D002 (Corrosive) D003 (Reactive) Characteristic for Toxic Metals: D004 D005 D006 D007 D008 D009 D010 D011								
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) D018								
Is this an "F" or "K" Listed waste or mixed with one? If "Yes", then please list ALL applicable codes:								
Is this a commercial pro 40 CFR 261.33(e) or (f)? If "Yes", then please I	-	☐ Y	_	No	ste code un	der		
Texas State Waste Code	Number:		OUTS101H					
Proper US DOT Shipping Class:	g Name: 9_UN/NA:	Hazardous \ NA3082	Waste Liquid	d, n.o.s.	RQ:	NA		
Flash Point pH Reactive Sulfides Reactive Cyanides Solids								
FIASII FUIIL								
>150			NA	mg/l		mg/l		%
>150 Oil & Grease	4-1 TO	0 C	NA	mg/l Zinc	NA Cor	mg/l oper	0-2 Nick	% kel
>150	4-1	.0	NA	mg/l	NA	mg/l	0-2	%
>150 Oil & Grease	4-1 TO 1500	0 C	NA	mg/l Zinc	NA Cor	mg/l oper	0-2 Nick	% kel
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005	mg/I pper mg/I mg/I	0-2 Nick	% kel mg/I UNITS
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 d Chemical Data MPONENTS TAE sists of the follor	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cop 0.005 CONCENT	mg/I pper mg/I mg/I	0-2 Nick	% kel mg/i UNITS or %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 d Chemical Data MPONENTS TAE sists of the follor	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cop 0.005 CONCENT	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/i UNITS or %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %
>150 Oil & Grease <1500 mg/l SECTION 4: Physical and	4-1 TO 1500 Chemical Data MPONENTS TAE sists of the follow	0 C <u>mg/l</u> BLE	NA 0.002	mg/l Zinc mg/l	NA Cor 0.005 CONCENT Ranges are a	mg/I pper mg/I mg/I RATOIN acceptable	0-2 Nick	% kel mg/l UNITS or % %

	f this waste requires the use of special protective equipmer	nt, please explain.
	ached Supporting Documents ts, notes, data and/or analysis attached to this form as part e. CES Evaluation	of the waste
SECTION 7: Inco Please list ALL inc None Known	ompatibilities compatibilities (if any):	
Laboratory analys	nerator's Knowledge Documentation sis of the hazardous waste characteristics, listed below, WA following generator knowledge:	AS NOT PERFORMED
TCLP Metals:	X	
TCLP Volatiles:	X	
TCLP Semi-Volati	iles: X	
Reactivity:	Х	
Corrosivity:	<u>X</u>	
Ignitability:	<u>X</u>	- <u> </u>
Facilities) Is thi	e Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treat his material a wastewater or wastewater sludge? If 'Yes', complete this section.	tment Requirements for Centralized Waste Treatment YES NO
PLEA	ASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEG	ORY, GO TO THE NEXT PAGE.
☐ Meta ☐ Chro ☐ Air p ☐ Spen ☐ Incin ☐ Wass ☐ Cyan ☐ Wass ☐ Cleas ☐ Vibra	pary: Subpart A Intelectroplating baths and/or sludges Ital finishing rinse water and sludges Ital finishing rinse water and sludges Ital finishing rinse water and sludges Ital anodizing solutions Interaction wastewaters Ital liquid mercury Inide-containing wastes greater than 136 mg/l Ital and bases with or without metals Italianing, rinsing, and surface preparation solutions from electroplateratory deburring wastewater Italian and acid solutions used to clean metal parts or equipment	ring or phosphating operations
Oil-w Lubri Cool. Cont Used Dilsp	: Subpart B d oils water emulsions or mixtures ricants lants taminated groundwater clean-up from petroleum sources d petroleum products spill clean-up e water se/wash waters from petroleum sources	

JUL-07-2009 13:24 CES ENVIROMENTAL

7137488664 P.005

Interceptor wastes
☐ Underground storage remediation waste
Tank dean-out from petroleum or ally sources
Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
Wastewater from paint washes
☐ Wastewater from adhesives and/or epoides formulation ☐ Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources
(1)
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional instructions
18
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
The information contained herein is based on generator knowledge and/or analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of composition
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
DA 1 AMIL
Authorized Signature:
Printed Name/Title: Charles I Metaler E/S
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Lety Welly de
Date: 7-17-09 Approved Rejected
Approval Number: 3/13 3

JUL-16-2009 15:12

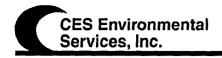
CES ENVIROMENTAL

7137488664 P.002

CES Environmental Services, Inc.

LDR Notifications/Certifications

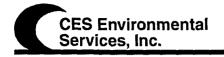
1.	Generator Informatio	n		1 2	Receiving Facility	Information		
l	Name:	TT Barge Mile	183	-	Name:	CES Environmental Services,	le a	
ĺ	Address:	7324 Highway			Address:	4904 Griges Road	MIC.	
1		Donaldsonville			, — 0.1C331	Houston, TX 77021		
1	EPA ID No.:	IAD980870794			EPA ID No.:	TXD008950461		
l	Manifest No.:					17070030401	·	
3.	Waste Description at	Point of Genera	ition	, — —				
Line				i		}		
Item	Waste Descr	iption	Hazardous Waste Codes	LDR Subcategory	ww/ww	Underlying Hazardou	us Constituents (2	268.2(i)]
1_	Barge Cleaning Contac	t Water	D018					
2	<u></u>							
3			<u> </u>	l				
4								
3								
4.	Waste Disposition						·	
Line Item	Subtitle C Exclusi	on Subsequent applicab	to Point of Generation (if le)	Current Disposi	tion of Waste	268.45, Table 1 Technolog debris (If applica		Date Shipped
1 2								
3				 				 -
4								
5	_							
	Was the waste hazardo	ous at the point	of generation but subsequently	became excluded fr	om the definition o	f hazzidous waste or exempt	from	
	Subtitle C regulation (in	ncluding charac	terstic wastes managed in waste stituents the 268.7(a)(7) one-tim	ewater treatment sys		•	- 	
	Waste the waste chara Subtitle D land disposa		ooint of generation, treated onsi			itment residues then shipped	to a	
			rdous at the point of generation nextraction or destruction tech			m the definition of bazardous Yes No (If yes,		ation 3.)
A.	Was the waste "debris"	" that was hazar	rdous at the point of generation	but subsequently be	come excluded fro	m the definition of hazardous	waste	
		celving a "no-id	inger-contains" determinatin from the contains the 268.7(d)(1) one-times	om EPA or the author				
	exclusion levels in 261.	3(c)(2)(li)(C), 2)	1, K062 and/or F006 wastes in h does not exhibit any characters: ete Certification 4.)				eric	
10.	Waste that has l	hoon treated to	remove a characterstic and me	ets underlying hazarı	lous constituents	tandarde	Applies to Item	··
10.			w that the waste has been treat				Applies to itent	s.
			he hazardous characterstics and				Reference:	
			ed on-site to meet the 268,48 U				268.7(b)(4)(v) a	nd 268.9(d)
			submitting a false certification,				1	
11.	Waste that has I	been treated to	remove a characteristic but doe	s not meet underlyin	g hazardous consti	tuents	Applies to item.	s:
	Learling	for nonalty of la	w that the waste has been treat	iw constance all ha	th the regularmont	• AF	Reference:	
			remove the hazardous characte				268.7(b)(4)(v) a	nd 268 9(d)
			thuents that require further tre				(=)(-)(-)	
			omitting a false certification, inc					
12.	Debris that has t	been treated to	meet the alternative treatment	standards.			Applies to items	S:
			w that the debris has been trea					
		45. I am aware Ity of fine and in	that there are significant penalt nprisonment.	les for submitting a f	alse certification, ir	ncluding	Reference: 268.7(b)(4)(∨) a	nd 268.9(d)
13.		=	51, KO62 and/or FOO6 wastes.				Applies to item	:
	impermissib	ole dilution and	w that the generic exclusion lev that no characterstic of hazardo	ous waste is exhibited	l. I am aware that I	here are	Reference:	
	significant p	enaltles for sub	mitting a false certification, incl	uding the possibility	of fine and impriso	nment.	268.7(b)(4)(v) a	nd 268.9(d)
	Authorized Signati	ure:	Elyha			Date:	104	
•	Printed Name / Tit	tie:	Charles I	rvettle	<u>~</u>	E15	, 	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

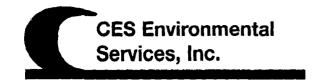
1. Base Pricing (including freight):
\$0.18/gallon, \$900.00/load freight
2. Contamination Limit (maximum limit before surchages apply): TOC: 20,000; Solids: 4%; Oil: 5%;
10C. 20,000; Solids: 4%; Oli: 5%;
<u></u>
3. Surcharge Pricing:
TOC: \$0.03/gallon/5000 TOC above 20,000 Solids: \$0.01/gallon/percent greater than 4%; Oil: call salesperson; If
heated/acidified: \$0.05/gallon

4. Special Testing Requirements:
TOC, Metals, solids, % oil, phenol
5. Treatment and Handling Protocol:
standard wastewater treatment
6. Treated Wastewater Discharge Subcategory:
o. neated mastemater districted by
☐ Subcategory A ☑ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
NA	
	1
	1
	ļ
	_
8. Management for Product Recovered/Recycled (if applicable)	_,
NA	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 6/29/09

To: Dana Carter

Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root Lab Memo: 09-127

Subject: TT Barge Mile 183 Evaluation 0609-45

A sample of waste water from TT Barge Mile 183 has been evaluated for potential processing at CES. This sample is evaluation 0609-45. This sample represents 400,000 gallons monthly of waste water receipts. While this particular sample is okay for processing, the evaluation form indicates that this water may contain up to 30% organics, which may be a problem. Further discussion will be needed on this stream.

This is fairly clean looking waste water with a trace of organics on top. It carries a D018 waste code for benzene. The water does have a hydrocarbon type of odor, but it is not strong. This water originates from the cleaning of barges. It has a pH of 6. The water treats easily; forming a nice floc that phase separates out nicely. The treated water has no phenols, TOC of 1098 and very low metals.

While this particular sample looks good for processing, we don't want to end up with hazardous waste water containing several percentages of benzene or some other organics that will be difficult to deal with. This is an operations issue and needs to be addressed. This particular sample may contain high benzene content that was not checked. Otherwise, this particular sample looks fine and is recommended for acquisition and treatment at CES. The table below summarizes the analytical testing.

TT B	arge Mile 183
Evalı	uation 0609-45
Solids, vol%	trace
Odor	slight hydrocarbon
pН	6
Phenols, ppm	0
TOC, mg/L	1,098
Oil, vol%	0
Treatability	Okay
Metals, ppm	
Ni	0.000
Zn	0.002
Cu	0.005
Cd	0.000
Cr _	0.000

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	Houston, TX 77029	Company	. (PK	-6m		10.			Com	ıpany:	(105								09-1-10
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	713-453-6091 Fax	1		17171					1			VV A						┌╻╻	Day*	Other
	ablabs.com	Contact:		ra (. , , ,	Conf	tact:	_					1110			Days*	
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ISE 9. Sar	mple ID and Description	<u> </u>	10. Sam			12.	<u>C</u>	Matri	iv		. o	Project S	<u>"//</u>	7					//	
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			Date	Time	Comp.	Water	Soil	Sludge	₹ ₹	Other			H							40 851
- James 1	7.3			 	171	>	-	S	_	+	 	/ 	-			/ 				18. REMARKS
174	170 Edans WWW		1469		14	+X	_			+	$\vdash \dashv$	$\rightarrow \downarrow$						-		
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BELLIN STREET	: UED D.V				10 55		D 5:									<u> </u>				
RELINQUIS				TIME 2	20. RE	CEIVE	-0 B)							07/	TE/	TIM	E	22. KN(JWN HAZA	ARDS/COMMENTS
J. an	OKCO-ti	!!	10.0	11/1	<u>ت د</u>	<u> </u>	4.	·	10					<u>"/11</u>	107	10:0	? ≤			
					!]~	Tempor	ature:	°C
				[2	21. RE	CEIVE	ED BY	LABO	RATO	RY								remper	a.u.e	
ntainers: VO		per/Glass 1 L	iter		*Prese	rvative				H - HC		N - H		S-	H ₂ SO ₄		\neg	Intact: \	or N	Initials
		stic/other			BILLO	NE L A		H - NaOl TRACK		T - Na ₂	S ₂ O ₃	<u> </u>	ther				\dashv			accept verbal changes
THOD OF SI	HIPMENT WALK - IN								ING 7	+									ase FAX writte	en changes to 713-453-60
B USE ONLY	SAMPLING	RENTAL _		P/U	J													s	amples will be	e disposed of after 30 days the right to return samples

Laboratory Analysis Report

Total Number of Pages: 6

Job ID: 09070287



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name: 0609-45 TT Barge Mile 183

Report To:

Client Name:

Attn:

CES Environmental

Dana Carter

Client Address:

4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021

P.O.#.: 0609-45

Sample Collected By: Dana Carter

Date Collected: 07/09/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Hazardous WW

Water

09070287.01

Enautrel Caypente!

Released By: Shantall Carpenter
Title: Project Manager

Date:

7/16/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 07/10/2009 12:05

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070287

Date:

7/16/2009

General Term Definition

Back-Wt

Back Weight

BRL cfu

Below Reporting Limit colony-forming units

Conc. D.F.

Concentration **Dilution Factor**

Front-Wt

Front Weight

LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

мѕ

Matrix Spike

MSD MW

Matrix Spike Duplicate

Molecular Weight

Pre-Wt

RptLimit

Post-Wt

ppm

RPD

SDL

surr

Т

Post Weight parts per million Previous Weight Qualifier

RegLimit

Regulatory Limit Relative Percent Difference

Reporting Limit Sample Detection Limit

Surrogate Time

TNTC Too numerous to count

Qualifier Definition

LABORATORY TEST RESULTS

Job ID: 09070287

Date 7/16/2009

Attn: Dana Carter

Client Name:

CES Environmental

Project Name:

0609-45 TT Barge Mile 183

Client Sample ID:

Hazardous WW

Date Collected: Time Collected: 07/09/09

16:00

Job Sample ID: 09070287.01 Sample Matrix Water

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics						
	Benzene	0.289	mg/L	25	0.05	07/13/09 15:51	HK
	Toluene	0.144	mg/L	25	0.05	07/13/09 15:51	HK
	Ethylbenzene	0.117	mg/L	25	0.05	07/13/09 15:51	HK
	m- & p-Xylenes	BRL	mg/L	25	0.1	07/13/09 15:51	HK
	o-Xylene	BRL	mg/L	25	0.05	07/13/09 15:51	HK
	Xylenes	BRL	mg/L	25	0.15	07/13/09 15:51	НK
	Trifluorotoluene(surr)	100	%	25	75-125	07/13/09 15:51	HK

QUALITY CONTROL CERTIFICATE



Job ID: 09070287

Date:

7/16/2009

Analysis: Purgeable Aromatics

Method:

SW-846 8021B

Reporting Units: mg/L

QC Batch ID: Qb09071518

Created Date: 07/15/09

Samples in This QC Batch:

09070287.01

Created By: Hkhuc

Sample Preparation: PB09071519

Prep Method: SW-846 5030C

Prep Date: 07/13/09 11:30 Prep By:

Hkhuc

QC Type: Method B	lank					
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Benzene	71-43-2	BRL	mg/L	1	0.002	
Toluene	108-88-3	BRL	mg/L	1	0.002	
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004	
o-Xylene	95-47-6	BRL	mg/L	1	0.002	
Xylenes		BRL	mg/L	1	0.006	

QC Type: LCS and L	.CSD									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.02	0.021	105	0.02	0.021	105	0	30	79.1-123	
Toluene	0.02	0.019	95	0.02	0.019	95	0	30	72.3-117	
Ethylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	30	77.4-119	ĺ
m- & p-Xylenes	0.04	0.043	108	0.04	0.043	108	0	30	77.2-127	
o-Xylene	0.02	0.02	100	0.02	0.02	100	0	30	71-114]
Xylenes	0.06	0.063	105	0.06	0.063	105	0	30	75.8-121	

QC Type: MS a	• • •													
QC Sample ID:	090702	91.01												
Parameter		Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual		
Benzene		BRL	0.02	0.021	105						65-143			
Toluene		BRL	0.02	0.019	94)		}			67-136	}		
Ethylbenzene		BRL	0.02	0.021	105					1	80-134			
m- & p-Xylenes	1	BRL	0.04	0.043	107	[[ĺ		1 1	81-131	i !		
o-Xylene	ł	BRL	0.02	0.02	97.8	{ }				1	74-134	} !		
Xylenes	}	BRL	0.06	0.063	105))		1	1	1	80-136			

Refer to the Definition page for terms.

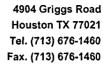
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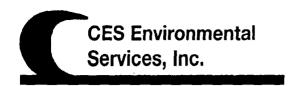
Sample Condition Checklist



Date: 07/16/09

A&B	JobID: 09070287	Date Received	: 07/	10/2009		Time I	Received :	12:05PM	,	
Client Name : CES Environmental										
Tem	perature : 23.1°C	Sample pH:	N/A		 -					
				 						
		Ch	eck Po	ints					Yes	No
1.	Cooler seal present and signed.							N/A		
2,	Sample(s) in a cooler.									х
3.	If yes, ice in cooler.									Х
4.	Sample(s) received with chain-of-cu	ıstody.					·		X	
5.	C-O-C signed and dated.								Х	
6.	Sample(s) received with signed sam	nple custody sea	i.						N/A	
7.	Sample containers arrived intact. (I								X	
8.	Matrix Water Soil Liqu		Solid	Cassette	Tube	Bulk	Badge	Food	Oth	
							<u>L</u> _) 		
	9. Sample(s) were received in appropriate container(s).						X			
10.							N/A			
11.							X			
12.							X			
13.							X			
14. 15.							X			
16.							X			
							N/A			
17.	17. Sample accepted. Comments: Include actions taken to resolve discrepancies/problem:						×			
	erature requirements were not met.		s/prob	em: —————						
Received by: Mgonzalez Check in by/date: Mgonzalez / 07/10/2009										
Phone	: 713-453-6060						v	ww.ablabs	.com	





Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3436

Expiration Date 7/27/2011

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: Non Hazardous Class I Solids

TCEQ Waste Code #: 00324091

Container Type:

Detailed Description of Process Generating Waste:

Unused Product / Out of Date

Color: Various

Odor: None to acid

pH: 4-9

Physical State:

Incompatibilities: See MSDS

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

TR/KAN

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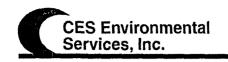
SECTION 1: Generator Information													
Company: ZaCh System Corp. (La Porte)													
Address:	914 South 16th Street 914 South 16th Street												
City, State, Zip:	ate, Zip: La Porte TX 77571												
Contact :	Ronald Smit	lh					Title:	É	451	MAN	46 5 R		
Phone No:	(281) 842-02	201		part a dia 1844 gan part o 1884 dans ada, a			Fax:	(281) 867-	1734			
24 / HR Phone:							_						
U.S EPA I.D No:	TXR000079	062					-						
State I.D:	88429						SIC Code	e					
SECTION 2: Billing													
Company:	ZaCh System			A 11 A 4				·					
Address : City, State, Zip :	La Porte TX		914 South 1	bin Sire	et								
Contact:	Ronald Smit						Title :						
Phone No :	(281) 842-02						Fax:	(281) 867-	1734			
SECTION 3: General			ıta.					,	,				
Name of Waste:													
Detailed Descript				ste:	**************************************								***************************************
unused products						•	•						
Physical State:	😰 Liqu	ld	ௐ Sluc	dge		₽o\	wder			•			
	☑ Solid	1	Filte	r Cake		◯ Co	mbination						
Color:			varies		Ode	or:				nor	ne to ac	rid	
Specific Gravity	(Water≂1) :	,	>1.2	····	Der	nsity :				10		1	bs / gal
Does this material	contain any to	tal phenoli	ic compounds	?	Ye	s	⊘ No						
Does this material	contain any p	ara substitı	uted phenolic	compou	ınds?		Yes	V	No				
Is the Waste subject	t to the benz	ene waste o	peration NES	HAP? (4	10 CFR P	Part 61,	Subpart FF	-)		Yes	\mathbf{V}	No	
2812 2813 2	816 2819	2821 2	822 2823	2824	2833	2834	2835 2	836	2841	2842	2843	2844	2851
2861 2865 2	2869 2873	2874 28	876 2879	2891	2892	2893	2896 2	899	2911	3312	4953	4959	9511
Layers :	⊘ Sing	le-Phas	Mul	lti-Phas	e								
Container Type :	Druit	n 📳	Tote	题	Truck		Other (ex	(piain	_				
Container Size :	Container Size: 5/55 gal												
Number Of Units: 64													
Is this a USEPA "I		-			rdous Co		✓ No nts Form att	tached i	hereto				
If "Yes", is it:													

Characteristic for Toxic M	etais: 🔲 D004	☐ D005	D006	ם 🗌	007			
	D008	D009	□ D010		011			
Characteristics for Toxic (Organics: D012 thru	D043 (pleas	se list all that a	apply)				
Is this an "F" or "K" Listed	l waste or mixed wi	th one?	☐ Yes 〔	√ No				
If "Yes", then please li	st ALL applicable co	des:			- 1°]
Is this a commercial produ 261.33(e) or (f)?	uct or spill cleanup t	that would c	arry a "U" or "	P" waste	e code under 40 CFR	Yes	⊘ N	0
If "Yes", then please li	ist ALL applicable co	odes:						
Texas State Waste Code	No: 0032	4091						
Proper U.S. State Waste (Code No :		Non-RCR	A/Non D	OT regulated waste	solids		
Class: na	UN/NA :	na		PG:	na	R	ລ:	na
Flash Point	рН	R	eactive Sulfid		Reactive Cyanide		Solids	
>200	4-9		0	mg/l		mg/1	100	%
Oil and Grease	тос		Zinc	1	Copper	ا ا	Nickel	
namg/l	na	mg/l	na	mg/I	na i	mg/l	na ———	mg/l
SECTION 4: Physical and Ch	emical Data							
	COMPONENTS	TABLE		a de la companya de l	Conce	ntration	ΙŪ	nits
The material / p	oroduct consists o	f the follow	ing materials		TENTOTICE SERVICE SERV	acceptable	CONTRACTOR OF THE PARTY	r %
	Piredone L-cycloh	HCI	line			-100		%
•	Z-Leyclo					-100		%
	400train			صلصط	0	-100		%
	2200000000000000000000000000000000000	- rocking	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•				"
								
SECTION 5: Safety Related D								
If the handling of this was level D PPE	ste requires the us	e of special	protective eq	luipmen	it, please explain.			
, C. C. C. C. C. C. C. C. C. C. C. C. C.								
SECTION 6: Attached Suppo	rting Documents							
List all documents, notes		 ysis attache	ed to this form	as part	t of the waste appro	oval package.		
MSDS Sheets			•	·				
SECTION 7: Incompatibilities	narratir, je vyskik men 118 syknere personi di 1994 yazar izmili 1994 yazar izmili 1994 yazar izmili 1994 yazar							
Please list all incompatib see MSDS sheets	ilities (if any):							
see Modo sheers								
SECTION 8: Generator's Kno	vuladna Dacumantati	lon						
Laboratory analysis of the following generators known	hazardous waste		stics, listed be	low, W	AS NOT PERFORM	ED based upo	on the	
TCLP Metals :	<u>X</u>							
TCLP Volatilies :	<u>x</u>							
TCLP Semi-Volatiles :	<u>x</u>							
Reactivity :	<u>x</u>							
•			2					

From:Zach System

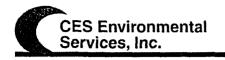
Corro	sivity: <u>x</u>
iginta	bility: <u>x</u>
	ON 9: Waste Receipt Classification Under 40 CFR 437 material a wastewater or wastewater sludge? YES NO
If YES	5', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matal	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
	subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures
	Lubricants
	Coolants Contaminated accordinates along up from actralours courses
	Contaminated groundwater clean-up from petroleum sources Used petroleum products
	Oil spill clean-up
	Bilge water
\Box	Rinse/wash waters from petroleum sources
	Interceptor wastes
\Box	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ	nics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources					
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory					
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory					
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L					
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.					
☐ Metals Subcategory					
☐ Oils Subcategory					
☐ Organics Subcategory					
SECTION 10: Additional Instruction					
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.					
SECTION 11: Generator's Certification					
The information contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.					
Authorized Signature: Konseld and Date: 7-21-09					
Printed Name / Title: RUNALD Smith / EHS Manager					
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information:					
Compliance Officer: Laborative					
Date: 7-27-09 Status: Approved Rejected					
Approval Number: 3436					



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Call Joy for pricing info.
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
BIK to Class 1 box
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	

Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 07/14/2003

Reviewed on 03/24/2003

- 1 Identification of substance:
 - ♦ Product details:
 - ◆ Product name: 4-Piperidone hydrochloride monohydrate

 Piredone HCL
 - ♦ Stock number: A13726
 - ♦ Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Emergency Phone: (978) 521-6300

CHEMTREC: (800) 424-9300 Web Site: www.alfa.com

- ◆ Information Department: Health, Safety and Environmental Department
- ♦ Emergency information:

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

- 2 Composition/Data on components:
 - ♦ Chemical characterization:

Description: (CAS#)

4-Piperidone hydrochloride monohydrate (CAS# 40064-34-4);

- ♦ Identification number(s):
- **♦ EINECS Number:** 254-779-9

3 Hazards identification

- ♦ Hazard description: · Not applicable
- ◆ Information pertaining to particular dangers for man and environment

Not applicable

- ♦ Classification system
- ♦ HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 1

Reactivity = 1

• 4 First aid measures

♦ After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

♦ After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

♦ After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

♦ After swallowing Seek medical treatment.

• 5 Fire fighting measures

♦ Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

♦ Special hazards caused by the material, its products of combustion or

resulting gases:

In case of fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCl)

♦ Protective equipment:

Wear self-contained respirator.
Wear fully protective impervious suit.

• 6 Accidental release measures

♦ Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

♦ Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

- ◆ Measures for cleaning/collecting: Pick up mechanically.
- ♦ Additional information:

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

• 7 Handling and storage

♦ Handling

◆ Information for safe handling:

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions are necessary if used correctly.

♦ Information about protection against explosions and fires:

No information known.

- ♦ Storage
- ♦ Requirements to be met by storerooms and receptacles:

No special requirements.

♦ Information about storage in one common storage facility:

Store away from oxidizing agents.

♦ Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

- 8 Exposure controls and personal protection
 - ♦ Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

- ♦ Additional information: No data
- ♦ Personal protective equipment
- ♦ General protective and hygienic measures

Material Safety Data Sheet

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.

♦ Breathing equipment:

Use suitable respirator when high concentrations are present.

- ♦ Protection of hands: Impervious gloves
- ♦ Eye protection: Safety glasses
- ♦ Body protection: Protective work clothing.
- 9 Physical and chemical properties:
 - ♦ General Information
 - ◆ Form: Crystalline
 - ♦ Color: Beige
 - ♦ Odor: Not determined
 - ♦ <u>Value/Range_Unit</u>
 Method____

♦ Change in condition

♦ Melting point/Melting range: 94-96 ° C

♦ Boiling point/Boiling range: Not determined

◆ Sublimation temperature / start: Not determined

♦ Flash point: Not applicable

◆ Flammability (solid, gaseous) Product is not flammable.
 ◆ Ignition temperature: Not determined
 ◆ Decomposition temperature: Not determined
 ◆ Danger of explosion:
 Product does not present an explosion hazard.

 ◆ Explosion limits:
 ◆ Lower: Not determined
 ◆ Upper: Not determined
 ◆ Vapor pressure: Not determined

♦ Density:

Not determined

♦ Solubility in / Miscibility with

♦ Water:

Not determined

• 10 Stability and reactivity

♦ Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

♦ Materials to be avoided: Oxidizing agents

- ♦ Dangerous reactions No dangerous reactions known
- ♦ Dangerous products of decomposition:

Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCl)

• 11 Toxicological information

- ♦ Acute toxicity:
- ♦ Primary irritant effect:
- ♦ on the skin: May cause irritation
- ♦ on the eye: May cause irritation
- ♦ Sensitization: No sensitizing effects known.
- ♦ Subacute to chronic toxicity:

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available.

♦ Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

• 12 <u>Ecological information:</u>

♦ General notes:

Do not allow material to be released to the environment without proper governmental permits.

Material Safety Data Sheet

A10726 4 1 Ipendone hydrochloride monoritydrate
• 13 <u>Disposal considerations</u>
♦ Product:
◆ Recommendation
Consult state, local or national regulations to ensure proper disposal.
♦ Uncleaned packagings:
♦ Recommendation:
Disposal must be made according to official regulations.
• 14 Transport information
Not a hazardous material for transportation.
♦ DOT regulations:
♦ Hazard class: None
♦ Land transport ADR/RID (cross-border)
♦ ADR/RID class: None
♦ Maritime transport IMDG:
♦ IMDG Class: None
♦ Air transport ICAO-TI and IATA-DGR:
♦ ICAO/IATA Class: None

♦ Transport/Additional information:

Not dangerous according to the above specifications.

• 15 Regulations

♦ Product related hazard informations:

Observe the general safety regulations when handling chemicals

♦ National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only.

♦ Information about limitation of use:

For use only by technically qualified individuals.

• 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

- ♦ Department issuing MSDS: Health, Safety and Environmental Department.
- ♦ Contact: Darrell R. Sanders

MATERIAL SAFETY DATA SHEET



07-20-2004

1- PRODUCT	& COMPANY INFORMATION	
Product Name	L-Cyclohexylglycine	NH ₂
Catalog Number	CY-1432	Соон
Company	OmegaChem inc. 8800 boul. De la Rive Sud	
	Levis (Quebec) Canada G6V 9H1 Tel. (418) 837-4444 Fax (418)837-5196	Omoga Choos
	info@omegachem.com www.omegachem.com	Omega Chem

2 – COMPOSITION / INGREDIENTS		
Substance Name L-(+)-Cyclohexylglycine	-	
(S)-(+)-alpha-Aminocyc	AND THE RESERVE OF THE PARTY OF	
CAS Number	SARA 313	Formula
14328-51-9	no	$C_8H_{15}NO_2$

3 – HAZARDS IDENTIFICATION

HMIS RATING HEALTH: 0

FLAMMABILITY: 0 REACTIVITY: 0

NFPA RATING HEALTH: 0

FLAMMABILITY: 0
REACTIVITY: 0

See section 11 for additional information on toxicity.

4 – FIRST AID	
Oral exposure	If swallowed, wash mouth with water, provided the person is conscious and call a
	physician.
Inhalation exposure	Remove the person to fresh air. If not breathing give artificial respiration. If breathing is
	difficult, give oxygen.
Dermal exposure	Immediately wash skin with soap and large amounts of water.
Eye exposure	Flush eyes with large amounts of water for at least 15 minutes.

5 – FIRE FIGHTIN Flash po		Flammability
N/A	N/A	N/A
Extinguishing media Firefighting	Water spray; carbon dioxide; dry chemical powder or Protective equipment: Wear self-contained breathing apparatus and protectiskin and eyes. Specific hazard(s): Emits toxic fumes under fire conditions.	•

	RELEASE MEASURES
Personal precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent
	inhalation of dust.
Cleaning up:	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area
	and wash spill site after material pickup is complete.

7 – HANDLING AN	
	Avoid inhalation, contact with eyes, skin and clothing.
	Avoid prolonged or repeated exposure.
Storage	Suitable: Keep tightly closed.

8 – EXPOSURE CO	ONTROLS / PPE
Engineering controls	Safety shower and eye bath.
	Mechanical exhaust required.
Personal protective,	Respiratory: Wear dust mask.
equipment	Hand: Rubber gloves.
	Eye: Chemical safety goggles.
General hygiene	Wash thoroughly after handling.
measures	

9 – PHYSICAL / CHEMIC	AL PROPERTIES		
Appearance S	Solid; white		
Molecular Weight,	157.21	Evaporation rate	N/A
pH	N/A	Viscosity	N/A
Boiling point (°C)	N/A	Surface tension	N/A
Melting point (°C)	N/A	Partition coefficient	N/A
Freezing point (°C)	N/A	Decomposition temp. (°C)	307.5°C
Vapor pressure	N/A	Flash point	N/A
Vapor density	N/A	Explosion limits	N/A
Saturated Vapor Conc.	N/A	Flammability	N/A
SG / Density	N/A	Autoignition temp. (°C')	N/A
Odor threshold	N/A	Refractive index	N/A
Volatile %	N/A	Optical rotation	+28° (c=0.5, 1N HCl)
VOC content	N/A	Solubility	N/A
Water content	N/A	Miscellaneous	
Solvent content	N/A	N/A ≒ no	ot available

10 - STABILITY A	AND REACTIVITY
Stability	Materials to Avoid: Strong oxidizing agents.
Hazardous	Carbon monoxide
decomposition	Carbon dioxide
products	Nitrogen oxides

11-TOXICOLOGICAL INFORMA	ATION	
Route of exposure		
Skin contact May cause skir	irritation.	
Skin absorption May be harmfu	l if absorbed through the skin	
Eye May cause eye	irritation.	

OmegaChem Inc.

CY-1432

Inhalation	May be harmful if inhaled. May be irritating to mucous membranes and upper respiratory
	tract.
	May be harmful if swallowed.
Signs and symptoms of	To the best of our knowledge, the chemical, physical, and
exposure	toxicological properties have not been thoroughly investigated.

12 – ECOLOGICAL INFORMATION

13 – DISPOSAL CO	
Appropriate method	Dissolve or mix the material with a combustible solvent and burn in a chemical
of disposal of	incinerator equipped with an afterburner and scrubber.
substance or	Observe all federal, state and local environmental regulations.
preparation	Observe an rederal, state and local environmental regulations.

14 – TRANSPORT	
DOT	Proper Shipping Name: None
	Non-Hazardous for Transport: This substance is
	considered to be non-hazardous for transport.
IATA	Non-Hazardous for Air Transport: Non-hazardous for air
77.74	transport.

15 – REGULATORY INFORMATION			
EU			
USA	SARA LISTED: No		
Canada	WHMIS Classification: This product has been classified in		
	accordance with the hazard criteria of the CPR, and the MSDS		
	contains all the information required by the CPR.		
	DSL: No		
	NDSL: No		

16 – OTHER INFORMATION

The product is to be used for R&D only. Not for drug, household or other uses.

The above information is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety measures. It is believed to be correct but does not purport to be inclusive and shall be used only as a guide.

OmegaChem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.



MATERIAL SAFETY DATA SHEET

1.	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT NAME	: Z-L-Cyclohexylglycine	
PRODUCT ID:	01273	
SYNONYMS:	Z-CHG; N-(Carbobenzyloxy)-L-Cyclohexylglycine; CBZ-	
LCyclohexylglycine	c; C16H21NO4	
ISSUE DATE:	6/26/2008	
EDITION NO.:	1	

ZaCh System Corporation. 914 So. 16th Street, La Porte, Texas, USA 24-hour Emergency Telephone Number: 1-281-842-0245 For Product Safety Information (8am-5pm Central time):

1-281-842-0201

PREPARER: EHS Group

COMPOSITION / INFORMATION ON INGREDIENTS

Material/CAS Number	<u>Percent</u>	
Z-L-Cyclohexyl Glycine 69901-75-3	>99	
Undefined impurities NONE	<1	
	3. HAZARDS IDENTIFICATION	

EMERGENCY OVERVIEW:

CAUTION! May cause irritation to eyes and skin. Dust may cause irritation of nasal and upper respiratory tract. May be harmful if inhaled. May be harmful if swallowed.

Precautions: Do not get in eyes, on skin, or on clothing. Extremely sensitive to moisture – Material should only be handled in a moisture-free environment. Unused material must be stored under dry nitrogen. Do not inhale. Dust may cause irritation of nasal and respiratory tract. Use only with adequate ventilation. Ventilation must be sufficient to minimize employee exposure in the work area. Use appropriate personal protective clothing and respiratory protection. Do not swallow. Remove and contaminated clothing before reuse. Wash thoroughly every day after work. Do not eat, drink, or smoke in work area. The fine dust contained in this product is capable of creating dust explosions.

4. FIRST AID MEASURES

INHALATION: Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

EYE/SKIN CONTACT: EYE: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary. SKIN: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

SPECIAL FIREFIGHTING PROCEDURES: Dust/air mixtures may ignite or explode. Emits toxic fumes under fire conditions. Fire-fighters must wear NIOSH approved pressure demand, selfcontained breathing apparatus and full protective clothing when fighting chemical fires.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid generating dust. Dust may cause an explosion hazard. Provide maximum ventilation. Wear proper protective equipment. Sweep or gather up material and place in proper container for disposal or recovery.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place. Store only in closed, properly labeled containers. Keep container closed when not in use. Do not use in poorly ventilated or confined spaces without proper respiratory protection. The fine dust contained in this product is capable of creating dust explosions. When handling this product in large quantities, the guidelines established in NFPA 654, Prevention of Dust Explosions, should be followed.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Limits:

8-hour Time Weighted Average (TWA); 15 -minute Short-Term Exposure Limit (STEL)

OSHA: No occupational exposure limits have been established by OSHA for this product.

ACGIH: No occupational exposure limits have been established by ACGIH for this product.

ONTARIO: No occupational exposure limits have been established by Ontario for this product.

RESPIRATORY PROTECTION: If use or application of this product generates dust, use an appropriate NIOSH-approved particulate filter respirator. The respirator use limitations made by NIOSH and by the manufacturer must be observed.

VENTILATION: Use local exhaust or general room/dilution ventilation as appropriate to control employee exposures in the work place.

EYE AND FACE PROTECTION: Standard safety glasses with side shields.

PROTECTIVE GLOVES: Impervious gloves. Rubber.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

BOILING POINT:	NA
VAPOR DENSITY (Air=1):	
SPECIFIC GRAVITY (Water=1):	
pH:	
FREEZING/ MELTING POINT:	
SOLUBILITY (wt.% in water):	NA
BULK DENSITY:	_ NA
VOLUME % VOLATILE:	
VAPOR PRESSURE:	NA
EVAPOTATION RATE:	
HEAT OF SOLUTION:	
PHYSICAL STATE:	Powder or crystals
ODOR:	None
COLOR:	White

Stability: Stable at room temperature.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID):

Strong acids. Strong bases. Strong oxidizers.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Oxides of carbon. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY STATUS: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

ACUTE:

Eye/Skin: Eye or skin contact may cause irritation. Inhalation: Breathing dust can irritate the upper respiratory tract including the eyes, nose, and throat. Ingestion: Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract.

CHRONIC: The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time.

ENVIRONMENTAL FATE:

No data at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

Proper Shipping Name:

Not regulated

15. REGULATORY INFORMATION

USA TSCA: A component in this product is not listed on the TSCA inventory. This product can only be used in R&D (by a technically qualified individual) or FDA regulated applications.

EU EINECS: A component in this product is not listed on EINECS. This product can only be used in R&D applications.

CANADA DOMESTIC SUBSTANCES LIST (DSL): A component in this product is not listed on the Canadian DSL. This product can only be used in R&D applications.

AUSTRALIA AICS: A component in this product is not listed on AICS. This product can only be used in R&D applications.

KOREA ECL: One or more components in this product are not listed on the Korean Existing

Chemicals Inventory (KECI). This product can only be used in R&D applications.

JAPAN MITI (ENCS): One or more components in this product are not listed on the Japanese Existing and New Chemical Subtances (ENCS) chemical inventory. This product can only be used in R&D applications.

PHILIPPINES PICCS: One or more components in this product are not listed on the Phillipines Inventory of Chemical and Chemical Substances (PICCS). This product can only be used in R&D applications.

CHINA IECSC: A component in this product is not listed on the Inventory of Existing Chemical Substances in China (IECSC). This product can only be used in China with an appropriate exemption permit.

SARA TITLE III:

SARA (311, 312) Hazard Class:

Acute Health Hazard.

SARA (313) Chemicals:

Not listed.

SARA Extremely Hazardous Substance:

Not listed.

CERCLA Hazardous Substance:

Not listed.

CANADA REGULATIONS (WHMIS): NON-CONTROLLED

16. OTHER INFORMATION

NA = Not Available

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3437

Expiration Date 7/27/2011

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: Nonhaz Class 2 Solids

TCEQ Waste Code #: 01233192

Container Type:

Detailed Description of Process Generating Waste:

Off spec materials from manufacturing process

Color: Various

Odor: None to faint

pH: 3-11

Physical State:

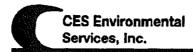
Incompatibilities: Oxidizers, strong acids Safety Related Data/Special Handling:

Std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

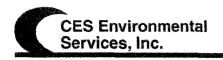
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 JR 15 Howton

SECTION 1: Gener	ator information	on											
Company:	ZaCh Syster	n Corp. (L	a Porte)										
Address:	914 South 1	6th Street	914 South	6th Str	eet								
City, State, Zip:	La Porte TX	77571											
Contact:	Ronald Smit	h					Title :						
Phone No:	(281) 842-02	201			,		_Fax:	(281)	867-	1734			
24 / HR Phone:							_						
U.S EPA I.D No :	TXR000079	062					_						
State I.D:	88429	·				<u></u>	SIC Code	·					
SECTION 2: Billing	Information												
Company:	ZaCh Syster	n Corp. (L	a Porte)										
Address :	914 South 1	6th Street	914 South	6th Str	eet								
City, State, Zip:	La Porte TX	77571											
Contact:	Ronald Smit	h					Title:						
Phone No :	(281) 842-02	201					Fax:	(281)	867-	1734			
SECTION 3: Genera	al Description	of the Was	ite										
Name of Waste :	Nonhaz Cl	ass 2	3olido										
Detailed Descript	ion of the Pr	ocess Ge	enerating Wa	aste:									
Off spec materials	from manufa	cturing pr	ocess										
Physical State :	Liqui	d	ௐ Slu	dge		₽ Po	wder						
	✓ Solid		◎ Filt	er Cake		® Co	mbination						
Color :			various		Od	or:				noi	ne to fai	int	
Specific Gravity (Water=1):		na		Dei	nsity:				Na		1	bs / gal
Does this material o	contain any to	tal phenoli	ic compound:	3?	☐ Ye	s	☑ No						
Does this material o	contain any pa	ıra substitu	uted phenolic	compo	unds?		Yes	2 1	No				
ls the Waste subjec	t to the benze	ne waste d	peration NES	SHAP? (40 CFR F	Part 61,	Subpart FF)		Yəs	\mathbf{V}	No	
2812 2813 2	816 2819	2821 2	822 2823	2824	2833	2834	2835 28	836 2	841	2842	2843	2844	2851
2861 2865 2	869 2873	2874 2	876 2879	2891	2892	2893	2896 28	899 2	911	3312	4953	4959	9511
Layers :	⊘ Sing	le-Phas	📓 Mu	lti-Phas	5 e								
Container Type :	Drun		Tote		Truck	8	Other (ex	plain)					
Container Size :	55												
Number Of Units	: 25					1							
Is this a USEPA "H		=					☑ No						
If "Yes", then ple		sign and da -	ate the Underf	ying Haz	ardous C	onsatue	nus ronn atta	acned ne	ereto				
If "Ves", is it:	D001 [D002	☐ D003										

Characteristic for Toxic	Metals:		=	D005	□ D00	_	D007				
Characteristics for Toxi	اسا C Organics: Di	D008	_	D009	D01 📋 blist all the	_	D011				
				-	_	_	L				
Is this an "F" or "K" List If "Yes", then please				ir L	Yes	✓ No					
Is this a commercial pro 261.33(e) or (f)?				ouid car	ту а "U" о	r "P" was	te code un	nder 40 C	FR 🔲	Yes 🔽 I	V o
If "Yes", then please	a list ALL appl	icable cod	des:								
Texas State Waste Cod	le No : 🕜	2/23	310	12			•				
Proper U.S. State Waste			سلص		 Non-F	RCRA/No	n-DOT Re	gulated M	/laterial		
Class: na	UN	/NA :	na			PG:	na			RQ:	na
Flash Point >150		pH 3-11		Rea	active Sul <20	fides mg/l	Reactiv	ve Cyani <20	des mg/l	Solids 75-80	%
Oil and Grease	Ť	oc			Zinc		C	оррег		Nickel	
na mg/	1	na	mg/l		na	mg/l		na	mg/l	na	mg/l
SECTION 4: Physical and (Chemical Data										
		NEWS		3				ខេត	eanteile.		Tito
The material	The second secon	CONTRACTOR OF THE PROPERTY OF		ADDRESS OF THE PARTY OF THE PAR	g materia	ls		ACCRECATE STREET, STRE	are accep	CONTRACTOR DESCRIPTION OF STREET	or %
	5-6	dium t	rung	Sake	di hyd	rate			50-100		%
									;		%
									· ·		%
									-100		%
accelous A.C. D. D. J. C.	. D -4:		-						V		
SECTION 5: Safety Related If the handling of this w		the use	- of er	secial n	rotective	eauinme	nt niesee	avnisin			
std ppe	ase requires	s are ase	U, 3 ₁	occiai p	Otechve	cquipine	iic picase	evhigiti	•		
SECTION 6: Attached Supp	orting Docum	ents									
List all documents, note	es, data, and/	or analys	sis at	tached	to this fo	rm as pa	rt of the w	aste app	oroval pad	:kage.	
msds											
250710N T. b											
SECTION 7: Incompatibiliti Please list all incompati		w).									
oxidizers, strong acids	Dillues (II ali	7)•									
· · · · ·											
SECTION 8: Generator's Kr	nowledge Doc	umentatio	n								
Laboratory analysis of the following generators kn		s waste d	hara	cteristic	cs, listed	below, W	VAS NOT I	PERFOR	MED base	ed upon the	
TCLP Metals :	χ										
TCLP Volatilies :	x										
CLP Semi-Volatiles :	X										
Reactivity :	X										
					2						

Corre	oslvity: <u>x</u>
	ıblity: x
.9	٠, ١٠٠٠
SECT	ON 9: Waste Receipt Classification Under 40 CFR 437
Is this	material a wastewater or wastewater sludge? YES NO
If 'YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matal	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
	ics Subcategory Subpart C Landfill leachate
	
	Contaminated groundwater clean-up from non-petroleum sources
_	Solvent-bering wastes
_	Off-specification organic product
	Still bottoms
	Byproduct waste glycol Westerwater from point weeken
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation Wastewater from organic chemical product operations
1 1	vvastemetet nom utgante enemical product operatoris

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste	should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the met	
Cadmium: 0.2 mg/L. Chromium: 8.9 mg/L. Copper: 4.9 mg/L. Nickel: 37.5 mg/L.	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classified	
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not fur Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commoncentrations. This will be prior to acceptance. The generator will be responsible SECTION 11: Generator's Certification	nercial laboratory a sample to determine these
The information contained herein is based on generator knowledge an above and attached description is complete and accurate to the best of my deliberate or willful omissions of composition properties exist and that all disclosed. I certify that the materials tested are representative of all mater	knowledge and ability to determine that no known or suspected hazards have been
Authorized Signature: Kan Swift	Date: 7-22-09
Printed Name / Title: RONALD Smith FAS Manager	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Perhant My	
Date: 7-27-09 Status: Approved Rejected Approval Number: 3437	
Approval Number .	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Call Joy for pricing info
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5 Treatment and Handling Protocol:
BUK to Class 2 by
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Produ	ct Recovered/Recycle	d (if applicable):		
L				
8. Management f	or Product Recovered,	/Recycled (if applicat	ole)	
[







Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
20	Fire Hazard 2	
	Reactivity	See Section 15.

Section 1. Chem	Section 1. Chemical Product and Company Identification				
Common Name/ Trade Name	Sodium tungstate dihydrate	Catalog Number(s).	S1515, S1516		
		CAS#	10213-10-2		
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	YO790000		
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: No products were found.		
Commercial Name(s)	Not available.	CI#	Not available.		
Synonym	Tungstic Acid, sodium salt, dihydrate	INCASE OF	PRATEDCIENCY		
Chemical Name	Sodium Tungstate dihydrate		<u>CEMERGENCY</u> C (24hr) 800-424-930 <u>0</u>		
Chemical Family	Not available.	CALL (310) 5	16-8000		
Chemical Formula	Na2WO4.2H2O				
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248				

				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Sodium tungstate dihydrate	}	10213-10-2				100

Section 3. Hazards Identification							
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.						
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.						

Continued on Next Page

Sodium tungstate d	ihydrate Page Number: 2
Section 4. First Aid I	Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.
Section 5. Fire and E	xplosion Data
Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.
Section 6. Accidental	Release Measures
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Continued on Next Page

Sodium tungstate d	lihydrate		Page Number: 3
Section 7. Handling	and Storage		
Precautions		ion and sh	ase of insufficient ventilation, wear suitable respirator now the label when possible. Avoid contact with skil agents.
Storage	Keep container tightly closed. Keep container in a	cool, well-	ventilated area. Do not store above 25°C (77°F).
Section 8. Exposure	Controls/Personal Protection		
Engineering Controls			engineering controls to keep airborne levels below lust, fume or mist, use ventilation to keep exposure to
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be Gloves.	e sure to	use an approved/certified respirator or equivalent
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. to avoid inhalation of the product. Suggested preserved handling this product.		A self contained breathing apparatus should be used clothing might not be sufficient; consult a specialis
Exposure Limits	TWA: 5 STEL: 10 (mg(W)/m³) from ACGIH (TLV) [United S	States]
	Consult local authorities for acceptable exposure lin	nits.	
Section 9. Physical a	nd Chemical Properties		
Physical state and appearance		Odor	Not available.
		Taste	Not available.
Molecular Weight	329.86 g/mole	Color	Not available.
pH (1% soln/water)	Not available.		
Boiling Point	Not available.		The state of the s
Melting Point	692.22°C (1278°F)		A15-W ₂
Critical Temperature	Not available.		
Specific Gravity	3.25 - 4.15(Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.	·	
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.	·	
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water. Insoluble in alcohol. It is soluble in about 1.1 parts of water		
Section 10. Stability	and Reactivity Data		
Stability	The product is stable.	· · · · · · · · · · · · · · · · · · ·	
Instability Temperature	Not available.		
Conditions of Instability	Incompatible materials		
Incompatibility with various substances	Reactive with oxidizing agents.		

te dihydrate	Page Number: 4		
Non-corrosive in presence of glass.			
Not available.			
Not available.			
Will not occur.			
	Non-corrosive in presence of glass. Not available. Not available.		

Section 11. Toxicolo	ogical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material. May cause adverse reproductive effects based on animal data. Animal studies showed post-implantation mortality effects on fertility.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with hypermotility and diarrhea. It may affect behavior/nervous system(somnolence, excitement, muscle weakness, convulsions, ataxia), cardiovascular system, respiration (respiratory depression), and blood.

Section 12. Ecologic	cal Information
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Dis	posal Considerations				
Waste Disposal	Waste must be disposed control regulations.	l of in accorda	nce with federal,	state and local enviro	onmental

Continued on Next Page

dihydrate	Page Number: 5
ort Information	
Not a DOT controlled material (United States).	Constitution Commission (1998) - Agente.
Not applicable.	***************************************
Not applicable.	
	ort Information Not a DOT controlled material (United States). Not applicable.

Section 15. Other	Regulatory Informa	ntion and Pictograms		
Federal and State Regulations	No products were fo	ound.		
Califorma Proposition 65 Warnings		The second secon		
Other Regulations	Not available.			
Other Classifications	WHMIS (Canada)	Not controlled under WHMIS (Canada)	•	
	DSCL (EEC)	R36/38- Irritating to eyes and skin.	S2- Keep out of the rea S46- If swallowed, seek immediately and show t	medical advice
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	National Fire Protection Association (U.S.A.) E	Health 200	Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)				***************************************
DSCL (Europe) (Pictograms)	7			
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				

Continued on Next Page

EPAHO109000134

Sodium tungstate dihydrate



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information MSDS Code S4610 References Not available. Other Special Not available. Considerations Validated by Sonia Owen on 8/11/2006. Verified by Sonia Owen. Printed 9/14/2006. CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Page Number: 6

##64-3438 Zach Systems Corp



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 7/27/2009

Dear **Ronald Smith**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3438

Expiration Date 7/27/2011

Producer: ZaCh System Corp. (La Porte)

914 South 16th Street Address:

La Porte, TX 77571

Material / Product Information

Name of Material / Product Unused hydrogen peroxide

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused hydrogen peroxide 35%

Color: Clear Odor: None **pH:** 3-4

Physical State:

Incompatibilities: Combustible materials; ORGANICS; ACIDS; see section 6 of

MSDS; see section 10 of MSDS

Safety Related Data/Special Handling:

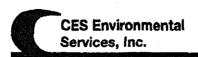
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

http://www.cesenvironmental.com

Fax: (713) 676-1676

TCEO Industrial Solid Waste Permit No: 30948

		EPA ID No: TXD0		o: 30900	XA
SECTION 1: Mater	ial Producer Information	· · · · · · · · · · · · · · · · · · ·			
Company:	ZaCh System Corp. (La	a Porte)			
Address :	914 South 16th Street	914 South 16th Stree	et		
City, State, Zip :	La Porte TX 77571				
Contact :	Ronald Smith		Title :		
Phone No :	(281) 842-0201		Fax:	(281) 867-1734	
24 / HR Phone :					
U.S EPA I.D No :	TXR000079062		 _		
State I.D :	88429		SIC Code	na	
SECTION 2: Billing	ı Information				
Company:	ZaCh System Corp. (La	Porte)			
Address :	914 South 16th Street		et		
City, State, Zip :	La Porte TX 77571			· · · · · · · · · · · · · · · · · · ·	
Contact :	Ronald Smith		Title :		
Phone No :	(281) 842-0201		Fax:	(281) 867-1734	
SECTION 3: Gener	al Description of the Mate	rial / Product			
	/ Product :Unused hyd				
Detailed Descrip	tion of the Process Ge	nerating or Produci	ng the Material / Produc	et:	
Jnused hydrogen					
Physical State :	☑ Liquid	Sludge	Powder		
	■ Solid	Filter Cake			
Color :		Clear	Odor:	none	
Specific Gravity	(Water=1) :	1.11	Density :	8-9	ibs / ga
Does this material	contain any total phenolic	compounds?	☐ Yes 🗸 No		
	contain any para substitu		nds? Yes	☑ No	
Layers:	Single-Phas	Multi-Phase			
Container Type:	☑ Drum 📳	Tote	Fruck 📳 Other (ex	olain)	
Container Size :	55				
lumber Of Units	: 1			•	
Proper U.S. DOT	Shipping Name: 'oge	n peroxide, aqueous	solutions with not less th	an 20% but not more than	40% hydroger
Clara . E 1 (Ovic		· UN2014	PG · 11		20 • 100

From: Zach System

Flash Po na	int	рН 3-4		Reactive S na	ulfides mg/l	Reactive na	Cyanides mg/l	Solids 0	s %
Oil and Gr		TOC		Zinc		Сор	·	Nicke	•
na	mg/l	na	mg/l	na	mg/l	ກະ	mg/l	na	mg/l

SECTION 4: Physical and Chemical Data

SECTION 8: Material Producer's Certification

Concentration	i One
Ranges are acceptable	or %
20~50	%
50-80	%
	Ranges are acceptable 20-50

COMPONENTS TABLE	Contempation -	
The material / product consists of the following materials	Ranges are acceptable	or %
hydrogen peroxide	20~50	%
water	50-80 %	
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special protectiv std PPE	/e equipment, please explain.	
SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part msds	t of the material / product profile.	

SECTION 7: Incompatibilities Please list all incompatibilities (if any): Combustible materials; 'ORGANICS; ACIDS'; see section 6 of MSDS; see section 10 of MSDS

above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document. **Authorized Signature:** Printed Name / Title: CES USE ONLY (DO NOT, WRITE IN THIS **Process Facility Information:** Compliance Officer: Approve Rejected Status: Approval Number:

The information contained herein is based on 🗹 generator knowledge and/or 🗆 analytical data. I hereby cerity that the



1. Dase Fricing (including freight):
No charge - transonly
2. Contamination Limit (maximum limit before surchages apply):
Must be unused product
A Control of the cont
2 Curehava Drisina
3. Surcharge Pricing:
<u></u>
4. Special Testing Requirements:
Must be unused
P. Turaturant and the adding Boots sale
5. Treatment and Handling Protocol:
Use in www treatment
E. Trented Westowater Discharge Subsategory
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Pro	duct Recovered/Recyc	led (if applicable	·):		
Se	e Section	ł			
8. Managemen	it for Product Recovere	d/Recycled (if ap	oplicable)		
Sle	Section 5				

MSDS Number: H4065 * * * * * Effective Date: 01/09/08 * * * * * Supercedes: 08/02/07

MSDS Material Safety Data Sheet

National Response in Canada

CANUTEC: 613-696-6666

rom: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865

dt JT.Baker

NOTE: CHEMITPEC, CANUTED and National Passonce Gerner emergency numbers to be used only in the event of chemical amergences involving a cipit, leak, five, exposure or socident smoking chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

HYDROGEN PEROXIDE SOLUTION, 30%

1. Product Identification

Synonyms: Peroxide; 100 volume peroxide; Hydrogen dioxide solution; Hydrogen peroxde, 30%, unstabilized; Hydrogen Peroxide, 30%, Ultrex®

CAS No.: 7722-84-1 Molecular Weight: 34.01 Chemical Formula: H2O2

Product Codes:

J.T. Baker: 2186, 2189, 2190, 2200, 2201, 2202, 2203, 2204, 3664, 5155, 5170, 5369, 5516, 5803, 5816, 5846, 5853, 5895, 5898, 5899, 5995, 6995

Mallinckrodt: 5240, H021, V340

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Hydrogen Peroxide	7722-84-1	29 - 32%	Yes
Water	7732-18-5	68 - 71%	No

3. Hazards Identification

Emergency Overview

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Life) Flammability Rating: 0 - None Reactivity Rating: 3 - Severe (Oxidizer) Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Vapors are corrosive and irritating to the respiratory tract. Inhalation of mist may burn the mucous membrane of the nose and throat. In severe cases, exposures may result in pulmonary edema and death.

Ingestion:

Corrosive and irritating to the mouth, throat, and abdomen. Large doses may cause symptoms of abdominal pain, vomiting, and diarrhea as well as blistering or tissue destruction. Stomach distention (due to rapid liberation of oxygen), and risk of stomach perforation, convulsions, pulmonary edema, coma, possible cerebral edema (fluid on the brain), and death are possible.

Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur.

Eye Contact:

Vapors are very corrosive and irritating to the eyes. Symptoms include pain, redness and blurred vision. Splashes can cause permanent tissue destruction. Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. If allowed to dry on clothing, evaporation leads to concentration and increased possibility of ignition.

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Pulmonary edema may be delayed for 24 to 72 hours; keep under observation. Gastric lavage may be necessary if swallowed. Analysis of body fluids (particularly gastric aspirates) using the titanium chloride reaction, if done immediately, will reveal peroxides.

5. Fire Fighting Measures

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases the flammability of combustible, organic and readily oxidizable materials.

Explosion:

Contact with oxidizable substances may cause extremely violent combustion. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may cause fire or explosion. Sealed containers may rupture when heated.

Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode

6. Accidental Release Measures

CAUTION! Caustic material. Causes fires with organic material. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not return spilled material to original container.

Larger Spills: Dilute with a large amount of water and hold in a pond or dyked area until the peroxide decomposes followed by discharge into a suitable treatment system. May be neutralized with sodium metabisulfite or sodium sulfite after diluting to 5-10% peroxide.

Do not flush undiluted material to sewer. This oxidizing material can increase the flammability of adjacent combustible materials. Empty containers should be rinsed with water before discarding.

7. Handling and Storage

Store in a cool(<35C), well-ventilated dark area separated from combustible substances, reducing agents, strong bases, organics. Do not store on wooden shelves or floors. Suggest rotation of stock. Containers must be vented, but check periodically for bulging containers which can burst from pressure. Protect containers from physical damage, contamination, heat and incompatibles.. Contamination from any source (dust, metals) may cause rapid decomposition with generation of large quantities of oxygen gas and high pressures. Rinse empty containers thoroughly with clean water. Glass, polyethylene, stainless steel and aluminum are recommended materials for storage containers. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
-OSHA Permissible Exposure Limit (PEL):

1 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):

1 ppm (TWA), A3: Animal carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. This substance has unknown warning properties.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

```
Clear, colorless liquid.
Odor:
Slight acrid odor.
Solubility:
Infinitely soluble.
Density:
1.11
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
108C (226F)
Melting Point:
-25C (-13F)
Vapor Density (Air=1):
Vapor Pressure (mm Hg):
25 @ 30C (86F)
Evaporation Rate (BuAc=1):
```

10. Stability and Reactivity

Stability:

Normally stable if uncontaminated, but slowly decomposes to release oxygen. Unstable with heat, may result in dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper. Avoid light and keep in a closed but vented container to prevent evaporation (concentration) and contamination.

Hazardous Decomposition Products:

Decomposes to water and oxygen with rapid heat release. Use vented containers. The solution can decompose violently upon heating.

Hazardous Polymerization:

Will not occur

Incompatibilities:
Heat, reducing agents, organic materials, dirt, alkalis, rust, and many metals. Spontaneous combustion may occur on standing in contact with readily flammable

Conditions to Avoid:

Avoid excess heat and contact with combustible or organic materials. Light and incompatibles.

11. Toxicological Information

For Hydrogen peroxide: No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and mutagen.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Hydrogen Peroxide (7722-84-1)	No	No	3
Water (7732-18-5)	No	No	None

12. Ecological Information

Environmental Fate:

No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION (WITH 30-32% HYDROGEN PEROXIDE)

Hazard Class: 5.1, 8 UN/NA: UN2014

Packing Group: II

Information reported for product/size: 463LB

6/30/2009

International (Water, I.M.O.)

Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION (WITH 30-32% HYDROGEN PEROXIDE)

Hazard Class: 5.1, 8 UN/NA: UN2014 Packing Group: II

Information reported for product/size: 463LB

15. Regulatory Information

Ingredient	Inventory Status - Par		TSCA	EC	Japan	Australia
Hydrogen Peroxide Water (7732-18-5)			Yes Yes	Yes	Yes	Yes Yes
Ingredient	Inventory Status - Par		Korea	Ca	anada NDSL	Phil.
Hydrogen Peroxide Water (7732-18-5)	(7722-84-1)			Yes		Yes Yes
Ingredient	State & International	-SARA RQ	1 302- TPQ	Lis	SAR st Che	A 313 mical Catg
Hydrogen Peroxide Water (7732-18-5)		No No	No	No		No
Ingredient	State & International	CERCI	.A	-RCRA- 261.33	-T:	SCA- (d)
Hydrogen Peroxide Water (7732-18-5)	(7722-84-1)			 No No		-

Chemical Weapons Convention: No TSCA 12(b): No SARA 311/312: Acute: Yes Chronic: No Fire: Ye Fire: Yes Pressure: No Reactivity: Yes (Mixture / Liquid)

Australian Hazchem Code: 2P

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1 Other: Oxidizer

Label Hazard Warning:
DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

Label Precautions:

Keep from contact with clothing and other combustible materials.

Do not store near combustible materials

Do not get in eyes, on skin, or on clothing.

Do not breathe vapor or mist. Store in a tightly closed container.

Use only with adequate ventilation

Remove and wash contaminated clothing promptly.

Wash thoroughly after handling.

Avoid contamination from any source, metals, dust, and organic materials that may cause rapid decomposition, generation of large quantities of oxygen gas and high pressure. Drying of product on clothing or combustible materials may cause fire.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

Product Use: Laboratory Reagent

Revision Information:

MSDS Section(s) changed since last revision of document include: 13.

Disclaimer:

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6/30/2009



Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Basic Chemicals

2000 Market Street

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Information Telephone Numbers

Phone Number

Available Hrs

Product Information

Philadelphia, PA 19103

215-419-7704

8:30 a.m. - 5:00 p.m.

(Eastern)

Product Name

Hydrogen Peroxide, 50% (All Grades)

Product Synonym(s)

Chemical Family

Peroxide

Chemical Formula

H2O2

Chemical Name

Hydrogen Peroxide Solution, 50%

EPA Reg Num **Product Use**

IN CANADA, IN CASE OF EMERGENCY CALL:

CANUTEC 613-996-6666

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Hydrogen peroxide	7722-84-1	50%	Υ
Water	7732-18-5	50%	N

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Water white liquid with slightly sharp odor.

DANGER!

CAUSES EYE BURNS. MAY CAUSE BLINDNESS.

CAUSES SKIN BURNS.

CAUSES RESPIRATORY TRACT BURNS.

HARMFUL IF SWALLOWED.

STRONG OXIDIZER.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE OR EXPLOSIVE DECOMPOSITION.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, practically non-toxic if absorbed

Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 1 of 6



Material Safety Data Sheet

Arkema Inc.

through skin, slightly toxic if inhaled, and corrosive to eyes and skin. Inhalation of high concentrations of vapor or mist may cause severe irritation of the eyes, nose and upper respiratory tract with cough, chest discomfort and, in severe cases, pulmonary edema (accumulation of fluid in the lungs). Skin contact with concentrated liquid for a short period of time may cause a temporary whitening or bleaching of the skin. Prolonged or repeated contact with skin may cause severe irritation or burns characterized by a tingling sensation, redness, swelling and possible destruction of the dermis with ulceration. If swallowed, this material may cause irritation, burns or perforation of the gastrointestinal tract including the stomach and intestines. Symptoms of injury may include nausea, vomiting, diarrhea, abdominal pain, bleeding or tissue ulceration.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature

NA

NA

Flash Point

None NA Flash Point Method

Flammable Limits- Upper

pper

Lower

Extinguishing Media

Use water spray, water fog.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Solutions above 65% are especially hazardous as they do not contain enough water to remove the heat of decomposition by evaporation. Avoid breathing fumes from fire exposed material.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Flush with plenty of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Residual hydrogen peroxide which is allowed to dry on organic materials such as paper, fabrics, cotton, leather, wood, or other combustibles can cause the material to ignite and result in a fire. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

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Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe mist. Do not taste or swallow. Wash thoroughly after handling. Use only with adequate ventilation. Avoid contamination. Keep container closed.

Storage

Store separate from acids, alkalies, reducing agents, combustibles.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eve / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Neoprene, Polyvinyl chloride, Butyl rubber Gloves should be worn when handling this material. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Other Protective Equipment

Rubber boots with neoprene or pvc soles. Do NOT wear leather boots. Note: As the water content of hydrogen peroxide evaporates, cotton, rayon, and wool fibers are particularly subject to spontaneous combustion. Where there is significant risk of sudden splash or spray, it is advised that an apron or rubber suit be worn. Any contaminated clothing, including gloves, shoes, aprons, coveralls, etc., should be removed immediately and thoroughly flushed with water to eliminate any traces of hydrogen peroxide before cleaning and reuse.

Value

Airborne Exposure Guidelines for Ingredients Exposure Limit

Hydrogen peroxide		
ACGIH TWA	-	1 ppm 1.4 mg/m3
OSHA TWA PEL	-	1 ppm 1.4 mg/m3

-Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

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Material Safety Data Sheet

Arkema Inc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor

Water white liquid with slightly sharp odor.

Hq

NF

Specific Gravity

1.196 @ 20 C

Vapor Pressure

18.3 @ 20 C

Vapor Density Melting Point 1.0

Freezing Point

NE -52 C (-62 F)

Boiling Point

114 C (237 F)

Solubility In Water

Complete

Percent Volatile Molecular Weight 100% 34.01

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility

Material decomposes with the potential to produce a rupture of unvented closed containers. Contact with metals, metal ions, organics, wood, dust, shavings, dry vegetables may cause decomposition.

Hazardous Decomposition Products

This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below. Hydrogen Peroxide Single exposure (acute) studies indicate that this material is moderately toxic if swallowed (rat LD50 805 mg/kg; 70% solution), practically non-toxic if absorbed through skin (rabbit LD50 >6,500 mg/kg; 70% solution), slightly toxic if inhaled (no mortality in rats at 170 mg/m3 for 4 hours), and corrosive to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure. Solutions are commonly used for disinfecting wounds, bleaching hair or as a mouth wash and generally do not show adverse skin reactions. Accidental ingestion by children has resulted in death from lung edema, stomach erosions and gas distention and burns to the throat and esophagus. Eye and throat irritation and bleaching of hair have been reported by workers exposed to this material in the atmosphere.

Several studies have been conducted by administering material in the drinking water of mice and rats. The primary findings were irritation of the gastric mucous. Repeated inhalation exposure of rats and mice caused nasal irritation without notable adverse effects on the lining of the upper respiratory system. Repeated inhalation exposure of dogs resulted in upper respiratory tract irritation and emphysematous changes in the lungs. Generally, long-term oral dosing caused no adverse effects other than erosion of the stomach lining from direct application of the test material. Several studies have shown an increase in gastrointestinal tract tumors in mice and rats following long-term exposure in the drinking water. Concentrations less than 1% do not promote gastrointestinal tumors. The U.S. Federal Drug Administration has concluded that there is insufficient evidence of carcinogenicity and the International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to its carcinogenicity to humans (Group 3). Genetic changes were observed in tests using bacteria and animal cells, but not in animals.

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Material Safety Data Sheet

Arkema Inc.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Hydrogen Peroxide

This material is highly toxic to marine algae (LC50 0.85 mg/l), moderately toxic to Daphnia magna (EC50 7.7 mg/l) and Daphnia pulex (LC50 2.4 mg/l). It is slightly toxic to coho salmon (LC50 10 mg/l), channel catfish (LC50 37.4 mg/l), golden orfe (LC50 35 mg/l), fathead minnow (LC50 16.4 mg/l), snail (LC50 17.7 mg/l) and bacteria (EC50 30 mg/l).

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name Hydrogen Peroxide, Aqueous Solution,

DOT Technical Name

DOT Hazard Class 5.1

UN Number UN 2014 PG II

DOT Packing Group

DOT Special Information Subsidiary (8)

Non-Bulk packages must have Class 5.1 and Class 8 labels.

Bulk packages require Class 5.1 Oxidizer placards.

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y

Fire

Υ

Delayed (Chronic) Health N

Reactive

Sudden Release of Pressure

Υ Ν

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

CERCLA RQ

SARA TPQ

Hydrogen peroxide

NE

1000 LBS

Water

ΝE

Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 5 of 6



Material Safety Data Sheet

Arkema Inc.

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Hydrogen peroxide

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Hydrogen peroxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List. Hydrogen peroxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. Hydrogen peroxide

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List. Hydrogen peroxide

16 OTHER INFORMATION

Revision Information

Revision Date

12 OCT 2004

Revision Number 20

Supercedes Revision Dated

11-OCT-2004

Revision Summary

Section 16 for Canada

NE= Not Established NA= Not Applicable (R) = Registered Trademark

Miscellaneous

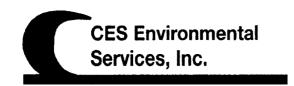
This MSDS covers the following grades of H2O2:

Albone; Alb, Alb A; Alb CG; MS; Alb MT; Alb LCL; Alb LC; AL-1; AL-2; AL-3; AL-4; A; Per; Perone; FG; ASG; AG; CG; Pure; M; DS; EG; KASTONE 50; Valsterane; Peroxal; CLG; SEG

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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Waste Pre-Acceptance/Approval Letter

Date 7/29/2009

Dear Cade Durio

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3439

Expiration Date

Generator: Tubal-Cain

Address: 8737 Old Yacht Road

Port Arthur, TX 77642

Waste Information

Name of Waste: Oily Water

TCEQ Waste Code #: RECYCLE

Container Type:

Detailed Description of Process Generating Waste:

Oily Water from barge clean out

Color: brown to black Od

Odor: hydrocarbon

pH: 5-9

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.





Recycle Howater

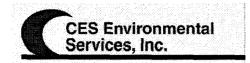
CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948						CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585				:585			
SECTION 1: Company:			<u>on</u>			•							
Address:	8737 Old Y	acht Road											
City:	Port Arthu	r		Sta	ate:	ΤX		Zip:				7	77642
Contact:	Cade Durio)				Title:		• '					
Phone Num		409-96	7-9273				ber:	Cade@TCI	MarineSe	ervices	com		
24/hr Phon	e Number:	409-96				•							
US EPA ID N		N/A				•							
State ID No		N/A				SIC Code:					· ·		
SECTION 2: Company: Address:		rmation -	☐ <u>S</u> ē	me as Abo	ove								
City:		·		S+	ate:	······································		Zip:			· · · · · · · · · · · · · · · · · · ·		
Contact:		**			arc.	Title:		- z ıh.					
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SECTION 2.	Conoral D	.covinelo-	af tha Was	4.0									
SECTION 3:	Gerierai Di	SCHIPCION	or the was	re									
Name of Wareholder Detailed De		Oily Wa		Waste:			-		,, <u></u>				
Oily Water f	from barge	clean out											
Ony water	Tom Darge	ciedii out				<u></u>							
Physical Sta	nte: 🗸	Liquid Solid			udge ter Cake			Powder Combinat	ion				
Color:	Brown to l	olack				Odor:		hydrocarb	on				
Specific Gra	vity (water	=1):	.99	-1		-		Density:		8.34 lb:	s/gal		
Does this m	aterial con	tain any to	tal phenol	ic compour	nds?		Yes	V	No				
Does this m	naterial con	tain any p	ara substiti	uted pheno	olic comp	ounds?			Yes	☑ No	0		
is the Wast Answer "Ye] Ilowin	∐ Yes g:	V	No
2812			2816	2819	2821	-	2822			824	2833		2834
2835			2841	2842	2843		2844			861	2865		2869
2873			2876	2879	2891		2892			.896	2899		2911
3312			4959	9511				. 200			_0.5		
Layers:		ngle-phase	_		ıase								
Container T	уре:] Drum	☐ Tota	e 🗸 Tr	uck 🗌	Other (ex	(plair	1)					
Frequency: Quantity:		-	nthly 🗌	Yearly 🗌	One-Ti	ime							

Is this a USEPA "Hazard If "Yes", then please con				Yes dous Constituer		No ached hereto		
Characteristic for Toxic		D004	D011	□ D006	D003 (Rea D007	<u> </u>	□ D009	
Characteristic for Toxic	Organics: D012	thru D043 (please list al	I that apply)				
Is this an "F" or "K" Listed waste or mixed with one? If "Yes", then please list ALL applicable codes:								
Is this a commercial pro 40 CFR 261.33(e) or (f)? If "Yes", then please I		Y		a "U" or "P" wa] No	aste code ui	nder		
Texas State Waste Code	Number:		RECYCLE			-	•	
Proper US DOT Shipping Class: N/A	g Name: UN/NA:	Recyclable N/A	Hydrocarbo PG :	n & Water Mix N/A	ture _RQ:	N/A		
			T	- 101	T***	I	0.1	al a
Flash Point	pi	-{	Reacti	ve Sulfides	Reactive	: Cyanides	Soli	ias į
Flash Point >150	p F 5-:		Reacti BRL	ve Sulfides mg/l	Reactive BRL	mg/I	0-3	% %
		9	BRL		BRL			%
>150	5-	9	BRL	mg/l	BRL	mg/l	0-3	%
>150 Oil & Grease	5-5 TO >1500	9 C <u>mg/l</u>	BRL	mg/l Zinc	BRL Co	mg/l pper	0-3 Nic	% kei
>150 Oil & Grease >1500 mg/l SECTION 4: Physical and	5-5 TO >1500	9 C mg/l	BRL	mg/l Zinc	BRL Co N/A	mg/l pper	0-3 Nic	% kei
>150 Oil & Grease >1500 mg/l SECTION 4: Physical and	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo	9 C mg/l	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCENT Ranges are	mg/I pper mg/I mg/I	0-3 Nic	% kei mg/i UNITS or %
>150 Oil & Grease >1500 mg/l SECTION 4: Physical and	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil	9 C mg/l	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4: Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %
>150 Oil & Grease >1500 mg/l SECTION 4; Physical and CO The waste con	5-1500 >1500 Chemical Data MPONENTS TAI sists of the follo #6 Fuel Oil Water	9 C <u>mg/l</u> BLE wing mater:	BRL N/A	mg/I Zinc mg/I	BRL Co N/A CONCEN Ranges are	mg/I pper mg/I mg/I TRATOIN acceptable 90	0-3 Nic	% kel mg/l UNITS or % %

If the handling Level D		ste requires the use (of special protecti	ve equipment, plea	se explain.	
	ents, notes,	oporting Documents data and/or analysu None		form as part of the	waste	
SECTION 7: In Please list ALL None Known						
Laboratory an	alysis of the	Knowledge Docume e hazardous waste ch generator knowled	naracteristics, liste	d below, WAS NO T	F PERFORMED	
TCLP Metals:		Not Regulated				
TCLP Volatiles	:	Not Regulated				
TCLP Semi-Vo	latiles:	Not Regulated				
Reactivity:		Non-Reactive				
Corrosivity:		Non-Corrosive				
Ignitability:		>200				
Facilities)	s this materi If 'Yes', c	al a wastewater or wa omplete this section.	stewater sludge?		YES YES	or Centralized Waste Treatment
F	PLEASE CHEC	K THE APPROPRIATE E	OX. IF NO APPROI	PRIATE CATEGORY, G	O TO THE NEXT	PAGE.
	pent electro Aetal finishir Chromate wa Air pollution Ipent anodiz Incineration w Waste liquid Lyanide-cont Waste acids a Cleaning, rins Vibratory del	plating baths and/or s ng rinse water and slud istes control blow down wa ing solutions wastewaters	iges ter and sludges than 136 mg/l out metals aration solutions fro		phosphating ope	erations
	Jsed oils Dil-water em Lubricants Coolants Contaminate Jsed petrole Dil spill clean Bilge water	ulsions or mixtures d groundwater clean-u um products		sources		

	Off-specification fuels	
	Underground storage remediation waste	
	☐ Tank clean-out from petroleum or oily sources ☐ Non-contact used glycols	
	Aqueous and oil mixtures from parts cleaning operations	
	Wastewater from oil bearing paint washes	
Organics S	Subcategory: Subpart C	
	Landfill leachate	
	Contaminated groundwater clean-up from non-petroleum sources	
	Solvent-bearing wastes	
	Off-specification organic product	
	☐ Still bottoms	
	Byproduct waste glycol	
	Wastewater from paint washes	
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations	
	Tank clean-out from organic, non-petroleum sources	
	Tank clean-out from organic, non-petroleum sources	
(1)		
` .	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2).		
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in	
	excess of the values listed below, the waste should be classified in the metals subcategory.	
	Cadmium: 0.2 mg/L	
	Chromium: 8.9 mg/L	
	Copper: 4.9 mg/L	
	Nickei: 37.5 mg/L	
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory	r,
SECTION :	10 Additional Instructions	
Copper, N	not determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromiu lickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This or to acceptance. The generator will be responsible for the cost of the analysis.	
SECTION	11: Generator's Certification	
The infor	mation contained herein is based on 🔃 generator knowledge and/or 🗀 analytical data.	
i hereby	certify that the above and attached description is complete and accurate to the best of	
	ledge and ability to determine that no deliberate or willful omissions of compostion	
	es exist and that all known or suspected hazards have been disclosed. I certify that the	
	s tested are representative of all maserials described by this document.	
moterial		
Authoriz	ed Signature: Date: 7/29/09 Jame/Title: Cade () U(10) Project Mouage	
Printed N	lame/Title: (ade () y is project Mayage	
CES USE	ONLY (DO NOT WRITE IN THIS SPACE)	
	(V) Ad	
Compliar	ice Officer: Kelylun Chya	
Date:	7-29-09 Approved Rejected	
Approval	Number: 3430	

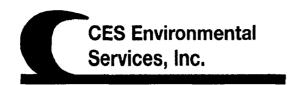
34797



1. Base Pricing (including freight):
PAY - \$0.20 / gallon if BS&W 0-15% & no transportation charge
CHARGE = \$0.35 / gallon if BS&W >15% & \$395 / TL for transportation
2. Contamination Limit (maximum limit before surchages apply):
2 Suushanga Duining
3. Surcharge Pricing:
<u></u>
4. Special Testing Requirements:
Chloratted, Flosh, % solids, % water
Chipared, Trans, 10 sonas, % walls
5. Treatment and Handling Protocol:
Call Jenny or Matt with QC / QA results. Decant oil from water. Water to WWTP, Oil for Blending
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☑ Subcategory B ☐ Subcategory C
Subcategory A Subcategory b Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/29/2009

Dear Steve

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3440

Expiration Date 7/29/2011

Generator: Rolled Alloys

Address: 9818 E. Hardy Rd.

Houston, TX 77093

Waste Information

Name of Waste: Cutting sand and water sludge from water jet blasting booth

TCEQ Waste Code #: CESQ5191

Container Type:

Detailed Description of Process Generating Waste:

Sand and garnet are used in hydroblasting with high pressure to cut various forms of stee

Color: Brown

Odor: Odorless

pH: 8.55

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.





4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit Number: 30948 # 3140
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enterined
in

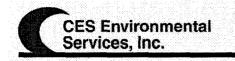
05 stor
showstor

			U.S.	EPA ID Nu	mber: TXD00	8950461	ISWR	Numbe	er: 30900		·		ng.
SECTION 1:	Gener	ator i	nformati	ion									0,3
Company:				.411									X
Address:			lardy Roa	ad .									
City:	Houst					tate:	TX		Zip:				77093
Contact:	Lee Do	eves	Steve	- Aug			Title:		Manager				
Phone Num			281-25		177	696-	_	mber:	281-691-0	247	5140	0	
24/hr Phon	e Numb	er:		5 1460	724-	8637	פיב						
US EPA ID	Yo:		TXCESO			<i>U. + 1</i>							
State ID No):		CESQG		· · · · · · · · · · · · · · · · · · ·		SIC Cod	le:					
SECTION 2: Company:	Billing	Infor	mation -	v	Same as At	ove							
Address:													
City:					S	tate:			Zip:				
Contact:							Title:						
Phone Num	nber:						Fax Nu	mber:					
SECTION 3:	Genera	ol Des	cription	of the Wa	<u>aste</u>								
Name of W					Water Sluc	ge from	Water Je	t Blasti	ing Booth				
Detailed De	escriptio	n of i	Process (Seneratin	g Waste:								
Sand and ga			Liquid	oblasting	☑ s	ludge		ous foi	Powder		· w <u> </u>		
		Ш	Solid		<u> </u>	ilter Cak	е	Ш	Combinat	ion			
Color:	Brown						Odor:		Odorless				
Specific Gra	vity (wa	ater=:	1):	<u>N</u> ,	/A		_		Density:	N/A	lbs/	/gal	
Does this m	aterial	conta	in any to	otal phen	olic compou	ınds?		Yes	Ø	No			
Does this m	aterial	conta	in any p	ara substi	ituted phen	olic com	pounds?			Yes	☑ No		
Is the Waste Answer "Yes	s" if you	r was	te conta	ins benze	ne AND if th	e SIC co	de from y	our fac	cility is one	of the			✓ No
2812		2813		2816	2819	2821		2822			2824	2833	2834
2835		2836		2841	2842	2843		2844			2861	2865	2869
2873		2874		2876	2879	2891	l	2892	2893	;	2896	2899	2911
3312		4953		4959	9511								
Layers:		Sing	gle-phase	• 6	☑ Multi-p	hase							
Container T	уре:		Drum	□ то	te 🗌 T	ruck 🗹	Other (e	explain	n)				
Frequency:				nthly 🔽	Yearly] One-T	ime						

Is this a USEPA "Haza If "Yes", then please				Yes		No ached hereto		
If "Yes", Is it: Characteristic for Tox Characteristic for Tox		☐ D004	D011	5 □ D006	D003 (Rea		<u>□</u> Đ009)
is this an "F" or "K" L if "Yes", then pleas			e?	☐ Yes	Ø	No		
Is this a commercial p 40 CFR 261.33(e) or (i If "Yes", then pleas	7)?	□ Y		a "U" or "P" wa] No	ste code un	ider		
Texas State Waste Co	de Number:		CESQ5191	······································	·			
Proper US DOT Shippi Class:	ng Name: <u>//</u> UN/NA:	RCRA Non-I	Haz, Non-Re PG:	gulated Class 1	Solids (Soil) RQ:	na		
Flash Point	pl	н	Reacti	ve Sulfides	Reactive	Cyanides	Sol	ids
> 140	8.5		0			mg/l	50	%
Oil & Grease	TC	C		Zinc Copper			Nic	kel
>1500 <u>mg/l</u>	BRL	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l
SECTION 4: Physical a	nd Chemical Data		·		CONCENT	RATOIN		UNITS
The waste co	nsists of the follo	wing materia	als	F		or %		
	Sand/Garnet				%			
<u>-</u>	Water		30-50				%	
St	1							
	eel Fragments/pie	eces			10-2	20		%

	: Satety Kela ling of this wa		of special protective equ	uipment, please e	xplain.	
	uments, note:	pporting Documents, data and/or analys	is attached to this form a	as part of the was	te	
	: Incompatib ALL incompati	ilities bilities (if any):				
Laboratory	analysis of th	Knowiedge Docum e hazardous waste o g generator knowled	haracteristics, listed belo	ow, WAS NOT PER	FORMED	
TCLP Metal	s:	BRL				
TCLP Volati	les:	BRL				
TCLP Semi-	Volatiles:	BRL				
Reactivity:		Non-Reactive		J		
Corrosivity:	;	Non-Corrosive				
Ignitability:		Non-Ignitable				
SECTION 9: Facilities)		Classification Under		e-Treatment Requi	rements fo	r Centralized Waste Treatment NO
		complete this section.	stewater stude:			e no
	PLEASE CHEC	K THE APPROPRIATE	BOX. IF NO APPROPRIATE	CATEGORY, GO TO	THE NEXT	PAGE.
Cils Subcate	Metal finishin Chromate wa Air pollution Spent anodiz Incineration Waste liquid Cyanide-cont Waste acids Cleaning, rins Vibratory del	plating baths and/or and rinse water and sluistes control blow down water solutions wastewaters mercury aining wastes greater and bases with or withing, and surface prepourring wastewater acid solutions used to	dges ater and sludges than 136 mg/l		hating ope	rations
F		ulsions or mixtures				
	Lubricants					
	Coolants		6			
	j Contaminate] Used petrole		up from petroleum sources			
] Oil spill clean					
	Bilge water	•				
Ē] Rinse/wash v	raters from petroleum	sources			

	Interceptor wastes
<u>_</u>	Off-specification fuels
<u>_</u>	Underground storage remediation waste
<u> </u>	Tank clean-out from petroleum or oily sources
<u> </u>	Non-contact used glycols
-	Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
L.,	1 Masternates would on pearing bank Masiles
Organics Sub	<u>leategory</u> : Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
<u> </u>	Wastewater from paint washes
닏	Wastewater from adhesives and/or epoxies formulation
님	Wastewater from organic chemical product operations
ليا	Tank clean-out from organic, non-petroleum sources
(1)	
• •	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10	Additional Instructions
Copper, Nicke	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This o acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11:	Generator's Certification
	tion contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
	ify that the above and attached description is complete and accurate to the best of
•	ge and ability to determine that no deliberate or willful omissions of compostion
	kist and that all known or suspected hazards have been disclosed. I certify that the
• •	ited are representative of all materials described by this document.
materials res	nted are representative or all materials described by this document.
Authorized S	
Printed Nam	re/Title:
CES USE ONL	Y (DO NOT WRITE IN THIS SPACE)
Compliance (Officer: Youldwilly the
Date: 1-	29-09 NApproved Rejected
Approval Nui	
,-p	



1. Base Pricing (including freight):
\$65 / ton or yard whichever is greater, \$70 / hr transportaiton
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: System 1 Class 1 Solids box
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Produc	t Recovered/Recyc	led (if applicable	e):	 · · · · · · · · · · · · · · · · · · ·	
L				 	
8. Management for	Product Recovere	d/Recycled (if a	pplicable)	 	•

Laboratory Analysis Report

Total Number of Pages:

Job ID: 09070577



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name: 0709-42 Rolled Alloys / Hardy Rd.

Report To: Client Name: Attn:

CES Environmental

Jenny Rust

4904 Griggs Rd Client Address:

City, State, Zip: Houston, Texas, 77021 P.O.#.: 0709-42

Sample Collected By: Durim T.

Date Collected: 07/22/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

0709-42 Box Sample

Sludge

09070577.01

Shautrul Carpente!

Released By: Shantall Carpenter

Title:

Project Manager

Date:

7/28/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 07/22/2009 14:45

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070577

Date:

7/28/2009

Back-Wt

Back Weight

BRL

Below Reporting Limit

cfu

colony-forming units Concentration

Conc.

Dilution Factor

D.F.

Front Weight

Front-Wt LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

Matrix Spike

мs MSD

Matrix Spike Duplicate

мw

Molecular Weight

Post-Wt

Post Weight

ppm Pre-Wt parts per million Previous Weight

Q

RptLimit

RPD

SDL

surr

Т

Qualifier

RegLimit

Regulatory Limit Relative Percent Difference

Reporting Limit Sample Detection Limit

Surrogate

Time

TNTC Too numerous to count

Qualifier Definition

S4

Surrogate not available due to dilution of sample extract for quantification.

LABORATORY TEST RESULTS



Job ID: 09070577

Date 7/28/2009

Client Name:

CES Environmental

Project Name:

0709-42 Rolled Alloys / Hardy Rd.

Attn: Jenny Rust

Client Sample ID:

0709-42 Box Sample

Job Sample ID: 09070577.01

Date Collected:

07/22/09

Sample Matrix Sludge

Time Collected:

13:15

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 6010C	TCLP Metals							
	Arsenic	BRL	mg/L	1	0.04	5.0	07/24/09 17:40	TK
	Barium	0.8502	mg/L	1	0.04	100.0	07/24/09 17:40	TK
	Cadmium	BRL	mg/L	1	0.04	1.0	07/24/09 17:40	TK
	Chromium	BRL	mg/L	1	0.04	5.0	07/24/09 17:40	TK
	Lead	BRL	mg/L	1	0.04	5.0	07/24/09 17:40	ΤK
	Selenium	BRL	mg/L	1	0.1	1.0	07/24/09 17:40	TK
	Silver	BRL	mg/L	1	0.04	5. 0	07/24/09 17:40	TK
SW-846 7470A	TCLP Metals, Mercury							
	Mercury	BRL	mg/L	1	0.0005	0.2	07/24/09 14:13	SS
SW-846 9045D	Corrosivity, pH							
	pH	8.91	s.u.	than 1907 or a responsibility		manaran arakti i saabasaan or hiin. 1150 dh	07/24/09 10:30	RK
TX 1005	Total Petroleum Hydrocarbons							
	C6-C12	BRL	mg/Kg	50	735		07/27/09 13:07	WS
	>C12-C28	15724	mg/Kg	50	920	en en en en en en en en en en en en en e	07/27/09 13:07	WS
	>C28-C35	31194	mg/Kg	50	955	es a commente de de se asserbance de secretat de se as	07/27/09 13:07	WS
	Total C6-C35	46918	mg/Kg	50	ut nega i protesta transporta fini person		07/27/09 13:07	WS
	1-Chlorooctane(surr)	N/A	%	50	50-149	S4	07/27/09 13:07	WS
	Chlorooctadecane(surr)	N/A	%	50	50-149	S4	07/27/09 13:07	WS



Job ID: 09070577

Date:

7/28/2009

Analysis: TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units: mg/L

QC Batch ID: Qb09072406

Created Date: 07/24/09

Samples in This QC Batch: 09070577.01

Created By: Ssrinivasan

Digestion: TCLP Prep: PB09072407 PB09072419 Prep Method: SW-846 7470A Prep Method: SW-846 1311

Prep Date: 07/24/09 07:00 **Prep By: Prep Date:** 07/23/09 16:30 **Prep By:** Ssrinivasan Sgarcia

QC Type: Method Blank

Parameter	CAS# F	Result Units	D.F. RptLimit	Qual
Mercury	7439-97-6	BRL mg/L	1 0.0005	

QC Type: LCS and LCSI	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit		Qual
Mercury	0.005	0.00478	95.6	0.005	0.00490	98	2.5	20	71-143	4.00

QC Type: MS	and MSD											
QC Sample ID:	09070490.	01										
	Sa	mple	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	figure.
Parameter	R	esult	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury		3RL	0.005	0.00497	99.2						61-175	



Job ID: 09070577

Date:

7/28/2009

Analysis : Corrosivity, pH

Method :

SW-846 9045D

Reporting Units : s.u.

QC Batch ID: Qb09072411

Created Date: 07/24/09

Created By: Rkurup

Samples in This QC Batch: 09070577.01

QC Type: Duplica	ie							
QC Sample ID: 0	9070543.01							
Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit			Qual
рH	7.31	7.35	s.u.	0.5	5			

QC Type: LCS and LCSD		
LCS LCS Parameter Assigned Resul	LCSD LCSD t Assigned Result	RPD RPD CtrlLimit Tolerance Qual
pH 4.00 4.02		3.95-4.05



Job ID: 09070577

Date:

7/28/2009

Analysis : TCLP Metals

Method:

SW-846 6010C

Reporting Units:

mg/L

QC Batch ID: Qb09072438

Created Date: 07/24/09

Created By: Tkhuc

Samples in This QC Batch: 09070577.01

Prep Method: SW-846 3010A

Prep Date: 07/24/09 11:00 Prep By:

Tkhuc

Digestion: TCLP Prep:

PB09072438 PB09072419

Prep Method: SW-846 1311

Prep Date: 07/23/09 16:30 **Prep By:**

Sgarcia

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39 - 3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L	1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782-49-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	2	2.058	103	2	2.041	102	0.8	20	80-120	
Barium	2	1.806	90.3	2	1.786	89.3	1.1	20	80-120	
Cadmium	2	1.909	95.5	2	1.894	94.7	0.8	20	80-120	
Chromium	2	1.829	91.5	2	1.813	90.7	0.9	20	80-120	
Lead	2	1.618	80.9	2	1,625	81.3	0.4	20	80-120	
Selenium	2	2.042	102	2	2	100	2.1	20	80-120	
Silver	2	1.977	98.9	2	1.958	97.9	1	20	80-120	

QC Type: MS and MSD QC Sample ID: 09070490.01											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.057	102						45-138	
Barium	1.501	2	3.222	86.1						39-135	
Cadmium	BRL	2	1.927	96.3						56-125	
Chromium	BRL	2	1.776	88.6						52-125	
Lead	BRL	2	1.608	80.2						55-125	
Selenium	BRL	2	2.019	100					la de la	70-130	2
Silver	BRL	2	1.996	99.8	1					26-148	ļ

Refer to the Definition page for terms.



Job ID: 09070577

Date:

7/28/2009

Analysis: Total Petroleum Hydrocarbons

TX 1005 Method:

Reporting Units: mg/Kg

QC Batch ID: Qb09072741

Created Date: 07/27/09

Samples in This QC Batch: 09070577.01

Sample Preparation: PB09072721

Prep Method: TX 1005

Created By: Dshen

Prep Date: 07/24/09 08:00 Prep By:

Dshen

QC Type: Method Blank							
Parameter	CAS#	Result	Units	D.F.	RptLimit		Qual
C6-C12		BRL	mg/Kg	1	14.7		
>C12-C28		BRL	mg/Kg	1	18.4		
>C28-C35		BRL	mg/Kg	1	19.1		
Total C6-C35		BRL	mg/Kg	1			

QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
C6-C12	500	511	102	500	490	98	4.2	20	75-125	
>C12-C28	500	500	100	500	483	96.6	3.5	20	75-125	
>C28-C35	500	412	82.4	500	408	81.6	1	20	75-125	

QC Type: MS and MSD											
QC Sample ID: 090706	606.01							3.18			
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
C6-C12	BRL	500	521	104						75-125	
>C12-C28	BRL	500	509	102						75-125	
>C28-C35	BRL	500	455	89						75-125	

10100 East Fwy (I-10) Ste. 100 Houston, TX 77029	in of		RE	PORT	TO:	*************	***************************************	2.			***************************************	1	NVOIC	E TO:			3. P(നമ ം ട	-47	,
713-453-6060	Company:	4412	U CO	vironmental Irihas Rodd			_Company: Address:		SAME				4. Turnaround Time (Business Day			C12.34 N					
1-877-478-6060 Toll Free 713-453-6091 Fax	Address:		7 OIR 1570N					Add	aress:									Day*		(Susilies Other	s vays
ablabs.com			NY R			TUL	1	\dashv										Days*			
&B JOB ID #	Contact: Phone:		3)646						ntact: one:					•••••			11/2			DAYS	Parady Miller
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I TRRP Limits only □ TRRP Rpt. Package □ See	Attached 1	1 Standar	I I aval II							Sie	17,			/ /	/ /	/	Ι,	/ /			
Sampler's Name & Company (PLEASE PRINT)		npler's Sigi	. 1 % (1 KG 2 KG 4 KB 1	Date						igi k			ş /	y /		/			/ /	/	
Dunin TABLES / CES			>				7	12	2	of Containers		STATE OF	NE M		/ /	/ /	/ /	/ /			
ABUSE 9. Sample ID and Description		0. San	npling	11	12.		<u> </u>	itrix		Š o		38 / N	Ne,			\mathcal{I}					
ONLY THE RESERVE T				-+					T _{&}	Z	Kill	13)	\\\ \	N	/ /	/ /	/ /				
		Date	Time	Comp.	Water	Soil	Sludge	ō ¦	Other		1/	V/	Y /	\					18.	REMARK	(S
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				21 RI	揪	विष् ।	Y AB	ORAT	pr()				$\eta \eta r$	nla	和体	K	Tempe	ature: L		°C	
Containers: VOA - 40 ml vial A/G - Aml	ber/Glass 1 Li	iter		**Pres	ervativo	3 5 : V	Kedd	~X	H-/Ht T-Na	1.2		- HNO ₃	-11-C €	- H,SO,	#1 1 1	1	Intact:	y g/N	Initia	1512	
Contamers, YUM-40 m viai Ard - Am							H - Na														

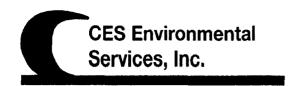
Sample Condition Checklist



Date: 07/28/09

A&B	JobID :	0907057	77	Da	ite Received	: 07	/22/2009		Time	Received :	2:45PM		<u></u>
Clier	it Name :	CES Env	ironmer	ital		 							
Tem	perature :	33.9°C		Sa	mple pH:	n/a	3						
				= -									
					Cł	neck P	oints					Yes	No
1.	Cooler sea	l present a	nd signe	d.								N/A	
2.	Sample(s)	in a coole	r.									X	
3.	If yes, ice	in cooler.										Х	
4.	Sample(s)	received v	vith chai	n-of-custo	dy.							X	
5.	C-O-C sigr	ed and dat	ted.									X	
6.	Sample(s)	received v	vith sign	ed sample	custody sea	ai.						N/A	
7.	Sample co	ntainers a	rrived int	act. (If no	comment).							х	
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
<u>.</u>	<u>-</u>												
9.					container(s	i).						X	
10.	Sample(s)	were rece	ived with	proper pi	reservative	_						N/A	
11.	All sample	s were log	ged or la	beled.					<u></u>			X	
12.	Sample ID labels match C-O-C ID's						Х						
13.	Bottle cou	nt on C-O-	C matche	s bottles 1	found.		 -					Х	
14.	Sample vo	lume is suf	fficient fo	or analyse:	s requested.							Х	
15.	Samples v	rere receiv	ed withir	the hold	time.							Х	
16.	VOA vials	completely	filled.									N/A	
17.	Sample ac	cepted.		-								X	
				to resolve	discrepancie	es/prob	olem:						
Sampl	e cooling init	iated in the	field.										
					_								
Rece	eived by :	Mgonzalez					Chec	ck in by/date :	Ruwadia	ı / 07/22/200 <u>9</u>	9		
 Phone	: 713-453-	5060				<u>^</u>				V	ww.ablabs	.com	

3441 Smith International



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 7/30/2009

Dear Mike Boozer MC-35

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3441

Expiration Date 7/30/2011

Producer: Smith International

Address:

16740 Hardy Street

Houston, TX 77032

Material / Product Information

Name of Material / Product Muratic Acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused gallon of muratic acid

Color: Brown

Odor: None

pH: <2

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Minimum of Level C PPE required

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

MODIENTE



CES Environmental Services - Houston Facility

JR Produt

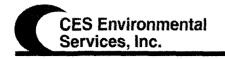
CES Environmental Services - Port Arthur Facility

U.S. EPA ID I	Phone (7 Number	713) 6 : TXD(s Road, I 76-1460 XX89504: olid Was	Fax: (7 61 1	713) 6: SWR N	76-146 iumbe	er: 309	00	U.S. F	Pho	20 S. Gull in e (713) lumber: 1	676-140	SO Fax:	(713)		iO	88585
SECTION 1: Company:										-					 	 	
Address:	16740	Hard	y Street		**			·									-
City:	Houst	on		·			Stat	: :	TX		Zip:						77032
Contact:	Mike I	ooze	r				_		Title:		-						
Phone Num	ber:		281-2	3-5558	1				– Fax Nu	ımber:							
24/hr Phon	e Numi	er:	281-79	4-9682					_								
US EPA ID N	io:		TXCES	QG					_								
State ID No:	:		CESQC	; <u> </u>					SIC Co	de:							
SECTION 2: Company:	Smith	interr	ational				Abov		-								
	P.O. B		368-	<u> 1674</u>	10	#	<u>erc</u>	_	Stre	<u>CT</u>							
City:	Housto						_Stat	e:	TX		Zip:		205-006	8			
Contact:	Micha	el Boc							_Title:		HSE Ma						
Phone Num	ber:		281-23	13-5838					_ Face No	mber:	281-23	3-5 6 20					
SECTION 3:	uste;		Murati	c Acid										ur-,	······································		
Detailed De Unused gallo Physical Sta	on of M						Stud	ge .			Powde	······································		· · · · · · · · · · · · · · · · · · ·			
Color:	Brown		Solid				Filte	r Cak	e Oder:		Combin	ation					
worde.	O/OHII						-				1101.0						
Specific Gra	vity (wa	nter=:	L):	•		_		1.5	-		Density	-	1.18	ibs/g	ai		
Does this ma	ateria!	conta	in any t	otal ph	enolic	com	pound	is?		Yes	1	 ✓ No					
Does this ma	atorial (conta	in any p	æra sut	stitu	ted pł	henoli	k con	rpounds	?		Yes	Ø	No			
u the Waste Answer "Yes														uing:	Yes	☑	No
2812		2813		2816		2819		2821	i.	2822	28	23	2824		2833		2834
2835		2836		2841		2842	:	2845	}	2844	28	51	2861		2865		2869
2873		2874		2876		2879		2891		2892	28	93	2896		2899		2911
3312		4953		4959		9511											
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Container Ty	lbe:		Drum	L)	Tote	ч	ired	K 1 <u>Y</u>	Other (exbigit	17						
requency: Quantity:		-		nthly	□ Y	ратіу	2)ne-T	ime								

		a" per 40CFR 261 gn and date the U		✓ Yes azardosa Constit		No ittached her	e to	
if "Yes", is it: Characteristic for Characteristic for	r Toxic Metals:	(nitable)	0 001	5 🔲 DOOR] D003 (Rea 5] D007		e000	
	K" Listed waste lease list ALL ap	or mixed with on plicable codes:	e?	☐ Yes	Ø	No		
is this a commerc 40 CFR 261.33(e) If "Yes", then p		□ Y	_	y a "U" or "P" w 2 No	raste code u	inder		
Texas State West	e Code Number	:	PRO	DOCT				
Proper US DOT SI Class:	hipping Name: 8 UN/NA:	Hydrochlor UN1789	ic Acid, Soi PG :	ution	RQ:	NONE 5	000	·
Fisch Point	t	pH	React	ive Sulfides	Reactive	Cyanides	Solik	is
>140		<2	<2 BRL		BRL	mg/l	0	%
Off & Great		TOC		Zinc	Con	per	Nick	el
	ng/I BRL		BRL	mg/l	BRL	mg/l	BRL	mg/l
ECTION 4: Physi	cal and Chemical	Data 3 TABLE			BRL	mg/i	BRL	mg/
ECTION 4: Physi	cal and Chemical	Data STABLE following materi			BRL	mg/i	BRL	
IFCTION 4; Physi	cal and Chemical COMPONENT te consists of the	Data STABLE following materi			BRL CONCENT	mg/i	BRL	UNITS or %
ECTION 4: Physi	cal and Chemical COMPONENT te consists of the	Data STABLE following materi			BRL CONCENT	mg/i	BRL BRL	UNITS or %
ECTION 4: Physi	cal and Chemical COMPONENT te consists of the	Data STABLE following materi			BRL CONCENT	mg/i	BRL	UNITS or %

If the handling of Minimum of Leve	this waste requires the use of special protective equipment, please explain.
	ched Supporting Documents s, notes, data and/or analysis attached to this form as part of the waste s. None
SECTION 7: Incor Please list ALL Inc None	mpatibilities ompatibilities (if any):
Laboratory analys	rator's Knowledge Dosumentation is of the hazardous waste characteristics, listed below, WAS NOT PERFORMED illowing generator knowledge:
TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatil	es: BRL
Reactivity:	Non-Reactive
Corrosivity:	Non-Corrosive
ignitability:	> 200
	Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste
Treatment Facilities	
	: material a wastewater or wastewater sludge? ☐ YES ☑ NO 「Yes', complete this section.
•	to be designed and approximately the second
PLEAS	SE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metal Chror Air po Spent Incine Waste Waste Clean Vibral	x: Subpart A electroplating baths and/or sludges liftishing rinse water and sludges nate wastes sliution control blow down water and sludges anodizing solutions tration wastewaters eliquid mercury de-containing wastes greater than 136 mg/l e acids and bases with or without metals ing, rinsing, and surface preparation solutions from electroplating or phosphating operations cory deburring wastewater the and acid solutions used to clean metal parts or equipment
Offs Subcategory :	· ·
Used	
Lubric	rter emulsions or mixtures
Coola	·
Conta	minated groundwater clean-up from petroleum sources
	petroleum products
`	11 clean-up
Bilge	vater wash waters from petroleum sources
111104	

Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from paint washes Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.
Authorized Signature: Muhael Booke Date: 7-30-09
Authorized Signature: Muhael Fooke Date: 7-30-09 Printed Name/Title: MICHAEL BOOZER Se. HSE/SHITH D&E
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Political Approved Rejected Approval Number: 3+41



1. Base Pricing (including freight):
call so comp for pricing into
Call Loe comp Carping into #20/9allon
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Formuse in operations.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	



Material Safety Data Sheet (MSDS-HCL)

	PRODUCT IDENTIFICATION	
Product Name	Hydrochloric Acid Solution 20 Deg. Be – 31.5% 22 Deg. Be – 35.2%	
Trade Names and Synonyms	Hydrogen Chloride (Aqueous) Muriatic Acid	
Manufacturer/Distributor	Trans Chem, Inc. 1415 Mengel Road Baton Rouge, Louisiana 70807 (504) 355-9977 Various others	
Transportation Emergency	800-255-3924 (24 hrs CHEM • TEL)	

	HAZARD	OUS COMPONENTS	
Material or Component	CAS No.	TLV	PEL
Hydrochloric Acid	7647-01-0	7mg/m³	5PPM
N/A = Not assigned	NE = Not established		

	PHYSICAL DATA	
Boiling Point	127° F	
Vapor Pressure	24mm Hg — 20 Deg. Be 100mm Hg — 22 Deg. Be	
Solubility in Water	Complete	
Specific Gravity	1.16 @ 15.5° C 20 Deg. Be 1.1789 @ 15.5° C 22 Deg. Be	
Melting Point	N/A	
Vapor Density	Similar to Water	
Evaporation Rate	Not Applicable	
Appearance and Odor	Clear Colorless to Yellowish Furning Liquid, Pungent and Irritating	

HAZARDOUS REACTIVITY Stable under ordinary conditions of use and storage. Does not polymerize. Incompatible with aluminum and aluminum alloys, carbon steel, copper and copper alloys, and nylon. Hydrogen gas will be formed if acid contacts metal.

	FIRE AND EXPLOSION DATA
Flashpoint	Not Flammable
Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Decomposition Products	Contact with most metals may produce Hydrogen gas to potentially explosive limits.
Unusnal Explosion	Containers may explode when heated. Consult the 2000 Emergency Response Guidebook, Guide 157 for further details.

	HEALTH HAZARDS / FIRST AID
Inhalation	Inhalation causes severe irritation of upper respiratory tract. FA: Remove person to to fresh air. If not breathing, give artificial respiration. Call physician.
Ingestion	CORROSIVE! Ingestion of Hydrochloric Acid can cause burns of the mouth, throat, esophagus and gastrointestinal tract. FA: DO NOT INDUCE VOMITING. Give large quantities of water or milk of magnesia. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Skin Contact	CORROSIVE! Can cause redness, pain and skin burns. Can cause some tissue destruction. FA: Immediately flush with water.
Eye Contact	CORROSIVE! FA: Continuously flush eyes with large amounts of water for at least 20 minutes. If irritation continues, seek medical attention.

	SPILL OR LEAK PROCEDURES				
Spill/leak In the event of a spill or leak, keep upwind. Ventilate enclosed areas until spill or leak is contained, neutralized and prepared for removal.					
Waste disposal	Disposal of waste material or residue may be subject to federal, state, or local regulation. Before transporting waste material see 49 CFR 172.				

	SPECIAL PROTECTION INFORMATION
Ventilation	Use only in areas with adequate ventilation.
Eye Protection	Use chemical safety goggles, plus a safety shield is recommended. Contact lenses should not be worn when working with this material.
Skin Protection	Wear impervious protective clothing; i.e., Boots, Gloves, Lab Coat, Apron or Coveralls to prevent skin contact.
Other	If working in an area of potential exposure, use an NIOSH approved respirator when material is fuming and exceeds the TLV.

STORAGE CONDITIONS

Store and handle only in containers suitably lined with or constructed of materials specified, by the manufacturer, for the product. Protect against physical damage. Keep separated from incompatible materials.

REGULATORY INFORMATION					
Proper shipping name	Hydrochloric acid				
Hazard class	8				
UN Number	UN1789				
DOT Label & Placard	Corrosive				
NFPA / HMIS Ratings	Health – 3; Flammability – 0; Reactivity – 0				
SARA Title III	Reporting Sections 302, 311 & 313				

The information contained in this Material Safety Data Sheet is based upon available data and believed to be correct; however, as such has been obtained from various sources, including the manufacturer and independent laboratories, it is given without warranty or representation that it is complete, accurate, and can be relied upon. Owen Compliance Services, Inc. has not attempted to conceal in any manner the deleterious aspects of the product listed herein, but makes no warranty as to such. Further, Owen Compliance Services, Inc. cannot anticipate nor control the many situations in which the product or this information may be used; there is no guarantee that the health and safety precautions suggested will be proper under all conditions. It is the sole responsibility of each user of the product to determine and comply with the requirements of all applicable laws and regulations regarding its use. This information is given solely for the purposes of safety to persons and property. Any other use of this information is expressly prohibited.

For further information contact:

David W. Boston, President **OWEN COMPLIANCE SERVICES, INC.**

12001 County Road 1000

P.O. Box 765 Godley, TX 76044 Telephone number: FAX number:

817-551-0660 817-396-4584

MSDS prepared by:

Allen M. Sweeney

Original publication date:

8/5/1999 12/03/03

Revision date

MSDS-HCL

PAGE 9A-3

Issued 8/5/1999 Revised 12/03/03



pH: Na



Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3442

Expiration Date 7/30/2011

Generator: Rio Tinto Minerals **Address:** 17509 Van Rd.

Houston, TX 77049

Waste Information

Name of Waste: Oily filters
TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily filters from basic maintenance operations

Ony micro from basic mannenance operations

Color: Varies Odor: Slight hydrocarbon

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

None

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB	2_	
R	ect)	ito

SECTION 1; Gener	ator Informatio	on					•		•					
Company:	RIo Tinto Mi	nerals												
Address:	17509 Van F	Rd. 175	09 Var	Rd.		·-·· ,					/		··	•
City, State, Zip:	Houston TX	77049					•••					• • •	· · · —	
Contact :	Michael Will	ams	•				"	Title :		•	•		•	
Phone No:	(281) 272-72	35	•					Fax:	(2	81) 456	7816		•	• •
24 / HR Phone :		• •								·- '·-				
U.S EPA I.D No :	TXR050029							_						
State I.D :	20609							SIC C	ode					
SECTION 2: Billing	Info/matlon													
Company:	Rio Tinto Mir	erals												
Address:	17509 Van R		09 Van	Rd.									K - /-	
City, State, Zip:	Houston TX	77049			···			••••						
Contact:	Michael Willi	ams						Title:		-· ··	• • • •		· · - ·	· · · · · · · · —
Phone Na :	(281) 272-72	35						Fax:	(28	31) 458	7816			
SECTION 3: General Name of Waste: Detailed Descriptions	Oily P	ocess (Genera	ating W	aste:			-	· ·					
Physical State :	(~) Liqui				dge		☐ Po	wder						
•	☑ Solld			Fil	er Cake		□ c _°	mbinatio	n					
Color:				/aries	^_	Od	or:		_	** 14	<u>allg</u> ht	hydroca	arbon	
Specific Gravity (Water≖1) :			ุ ทอ		Der	nsity:				na			íbs / gal
Does this material c	contain any to	iel phen	alic car	npound	67	∏ Y∎	s	₩ No	· 1				•	
Does this material						unda?	{	aeY [_	⊘ No				
is the Waste subjec	t to the benze	na wast	e opera	tion NE	SHAP?(40 CFR F	² art 61,	Subpart	FF)		Yes	(V)	No	
	.816 281.9 .869 2873	2821 2874	2822 2876	2823 2879	2824 2891	2833 2892	2834 2893	2835 2896	2836 2899	2841 2911	2842 3312	2843 4953	2614 4959	2851 9511
Layers :	[√] Sing	le-Phas		[] Mu	lltí-Pha	3e								
Container Type :	Drun) [] 1	Tote		Truck		Other	(explai	n)				
Container Size :	55													
Number Of Units	-	·—												
Is this a USEPA ") If "Yes", then plo						ardous Co		☑ N nts Form		d hereto				
If "Yes", is it:	_	0002		E00G										

Characteristic for Toxic Me	= =====================================		D007 D011	
Characteristics for Toxic Or	ganics: D012 thru D043 (please list all that apply)		
Is this an "F" or "K" Listed of "Yes", then please list		Yes V No		
is this a commercial product 261.33(e) or (f)?	ct or spill cleanup that wo	uld carry a "U" or "P" wa	ste code under 40 CFR	Yes 🗹 No
If "Yes", then please lis	t ALL applicable codes:			
l'exas State Waste Code N	lo: Recycle			
Proper U.S. State Waste C			on-DOT Regulated Material	
Class: na	UN/NA : na	PG;	na	RQ: na
Flash Point >200	pH na	Reactive Sulfides 0 mg/l	Reactive Cyanides 0 mg/l	Solids 100 %
Oll and Grease >100 mg/l	TOC 0 mg/l	Zinc 0 mg/l	Capper 0 mg/l	Nickel 400 mg/
SECTION 4: Physical and Che	mical Data			
	COMPONENTS TABLE		Concentrati	
The material / pr	roduct consists of the fo	llowing materials	Ranges are acce	eptable or %
	jads /fillers	·	90-98	%
SECTION 5: Safety Related Da f the handling of this was none		ecial protective equipm	ent, please explain,	
9ECTION 6: Attached Support List all documents, notes, generalter know	data, and/or analysis att	ached to this form as p	art of the w aste a pproval p	eckago.
SECTION 7: Incompatibilities Please list all incompatibilities Out of the compatibilities				
SECTION 8: Generator's Know Laboratory analysis of the following generators know	hazardous waste chara	cteristics, listed below,	WAS NOT PERFORMED ba	ased upon the
TCLP Metals :	<u>X</u>			
YCLP Volatilies:	X			
TCLP Semi-Volatiles :	X X			
Reactivity:	X	2		

Corro	sivity: χ
gnita	bility: X
3ECTIO	ON 9: Waste Receipt Classification Under 40 CFR 437
	material a wastewater or wastewater sludge? YES NO
	-
f YES	C, complete this section
PLEA!	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Viatals	s Subcategory: Subpart A
[_]	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste Ilquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electropiating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
2 a <u>IIC</u>	u <u>bcategory:</u> Subpart B
	Used offs
	Oll-water emulsions or mixtures
	Lubricants
\Box	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oll epill clean-up
	Blige water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tenk clean-out from petroleum or olly sources
	Non-contact used glycols
	Aqueous and oll mixtures from parts cleaning operations
	Westewater from oil bearing paint washes
	Ice Subcategory Subport C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still boltoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxles formulation
[_]	Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
☐ Metals Subcatego
□ Olls Subcatego
☐ Organics Subcategory
SECTION 10: Additional Instruction
f you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
ECTION 11: Generator's Certification
The information contained herein is based on
Authorized Signature: Aleni / Faruso Date: 7/29/03. Printed Name / Title: FISE N Janager
Printed Name / Title: FISE N GRAGEN
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information:
Compliance Officer: Rebut Thank Date: 7-30-09 Status: Approved Rejected Approval Number: 3442
Date: 7-30-09 Status: (Approved) Rejected
Approval Number: 3442



1. Base Pricing (including freight):
\$351DM
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Bulk to Oil fitter Recycler
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	
	;



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: Na

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3443

Expiration Date 7/30/2011

Generator: Rio Tinto Minerals

Address: 17509 Van Rd. Houston, TX 77049

Waste Information

Name of Waste: Universal batteries

TCEQ Waste Code #: Univ

Container Type:

Detailed Description of Process Generating Waste:

Removal of old batteries

Color: Varies

Odor: none

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fnx: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

1
1/1/20
M. Zen
XO.

					-								بري رسيد کند
SECTION 1: Gener	etor informatio	<u>n</u>	·····										
Company:	Rio Tinto Min	erals											
Address:	17509 Van R	d, 17509 Va	an Rd,										
City, State, Zip :	Houston TX	77049											
Contact:	Michael Willi			.,			Title :						
Phone No :	(281) 272-72	35					Fax:	(28	31) 456-	7816			
24 / HR Phone:						v-	_						
J.S EPA I.D No :	TXR050029						_						
State I.D:	20609						SIC Co	de					
BECTION 2: Billing	Information												
Company:	Rio Tinto Min	erals											
Address :	17509 Van R	d. 17509 Va											
City, State, Zip :	Houston TX	77049				., 							
Contact :	Michael Willi	eme					Title :						
Phone No:	(201) 272-72	35		•			Fax:	(26	31) 456-	7816			
SECTION 3: Gener	el Description	of the Waste											
Vame of Waste:	Universal bat	teries							. . ,			·~	
Detailed Descrip	tion of the Pr	ocess Gene											
Removal of old ba			_										
Physical State :	Llqui	i	C) Slu	იძცი		[] Po	wder						
	📝 Solld		🗀 FIII	ler Cake		□ ¢o	mb)natio	n					
Color:		····	varies	 -	Od	or:					none .		
Specific Gravity	(Water=1):		na	,	De	nsity:		<u> </u>		na	·	!	ba / gel
Does this material	contain any to	tal phenolic c	ompound	ls?	Ŭ Ye	\$	📝 No	•					
Does this material	contain any pa	ra substitute	d phenoile	c compa	unds?	(Yes	6	⊘ No				
is the Weste subje	ct to the benze	ne waste ope	ration NE	SHAP?	40 CFR F	³ art 61,	Subpart	FF)		Yes	Ø	No	
	2816 2819	2821 2822		2824	2633	2834	2835	2836	2641	2842	2843	2844	2851
2861 2865	2869 2873	2874 2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9 511
Layers :	🛭 Sing	le-Phas	[] Mı	ulti-Pha	6 9								
Container Type :	Drun	r 🗀	Tole		Truck	Ð	Other	(explai	n)			~	
Container Size :													
Number Of Unite	3:												
is this a USEPA " If "Yes", then p		=			∑ O <i>e</i> uobres		□ N nts Form		d hereto				
If "Yes", is it:	□ D001 [] p002 (E000 [

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals :

ж

TCLP Volatilles :

X

YCLP Semi-Volatiles :

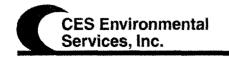
X

Reactivity:

X

Corro	sivity:	<u>x</u>				
gnita	bility :	X.				
		•				
(ECT)	ON 9: Weste Receipt C	lassification Under 40 CFR 437				
s mis	material a wastewate	r or wastewater sludge? [] YES [] NO				
f'YES	S', complete this section	n				
PLEAS	SE CHECK THE APP	ROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE				
Jatais	<u> Subcategory:</u> Sub	oart A				
	Spent electroplating					
	Metal finishing rinse water and sludges					
	Chromate wastes					
	Air pollution control b	iow down water and sludges				
	Spent anodizing solutions					
[]]	Incineration wastewa	ters				
	Waste liquid mercury					
	Cyanide-containing v	vastes greater than 136 mg/l				
	Waste acids and bas	es with or without metals				
	Cleaning, rinsing, and	d surface preparation solutions from electropialing or phosph				
	Vibratory deburring w					
\square	Alkaline and acid sol	utions used to clean metal parts or equipment				
Dils S	ubcategory: Sub	part B				
	Used oils					
	Oil-water emulsions	or mixtures				
\Box	Lubricants					
	Coolants					
\Box	Contaminated ground	dwater clean-up from petroleum sources				
	Used petroleum prod	lucts				
	Oil spill clean-up					
	Bilge water					
	Rinse/wash waters fr	om petroleum sources				
	Interceptor wastes					
	Off-specification fuel	9				
	Underground storage	remediation wastes				
	Tank clean-out from	petroleum or oily sources				
	Non-contact used gly	ycols				
\Box	Aqueous and oll mix	tures from parts cleaning operations				
\Box	Wastewater from oil	bearing paint washes				
	nics Subcategory Su	ibpari C				
	Landfill leachate	dwater clean-up from non-petroleum sources				
	Solvent-bering waste					
_	Off-specification org					
	Still boltoms	and product				
m m	Still bottoms Byproduct wastergly	col				
	Wastewater from pa					
(1 [_]		hesive and/or epoxies formulation				
(-1		panic chamical product operations				

Ĩ.	Tank clean-out from organic, non-petroleum sources		
1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory		
2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory		
	Cadmlum: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L		
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.		
	Metals Subcatego		
	Cils Subcatego		
	C) Organics Subcategory		
Œ(CYION 10: Additional Instruction		
chr on	ou carnot determine the correct subcalegory in Section 9 and you did not furnish data for the concentration of Cadmium, omfum, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these centrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis. STION 11: Generator's Cartification		
be loll	information contained herein is based on generator knowledge and/or analytical data. I hereby certty that the overall attached description is complete and accurate to the best of my knowledge and ability to determine that no liberate or willful omissions of composition properties exist and that all known or suspected hazards have been closed. I certify that the materials tosted are representative of all materials described by this document.		
ΔIJ	thorized Signature: Ace' / Harris Date: 1/29/09 nted Name / Title: / SE / Janage		
Pri	nted Name / Title: /SE// anager		
-	S USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information :		
Co	empliance Officer: Low Clarate		
Da	ompliance Officer: (Laborational Approved Rejected	Ap	proval Number: 3445



1. Base Pricing (including freight):				
Lad Alga - \$1.25/16 Ni-cad/Alkaline - \$1.45/16 Lithium - \$3.50/16 Magnesium / Zinc - \$4.25/16				
NECARITE TRAINER TO THE				
MACINASIUM 17000 - \$4 05/16				
Magrasion 1 / Direc 11 / 1 20 110				
2. Contamination Limit (maximum limit before surchages apply):				
3. Surcharge Pricing:				
4. Special Testing Requirements:				
5. Treatment and Handling Protocol:				
Contandading rotocol.				
Count à not for billing before bulling for battery				
Cont & not for billing before blung for battery bush because.				
6. Treated Wastewater Discharge Subcategory:				
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C				



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3444

Expiration Date 7/30/2011

Generator: Rio Tinto Minerals Address: 17509 Van Rd.

Houston, TX 77049

Waste Information

Name of Waste: Fluoroscent light bulbs

TCEQ Waste Code #: UNIV320H

Container Type:

Detailed Description of Process Generating Waste:

Burned out light bulbs

Color: White Odor: none

pH: Na

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Rond Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

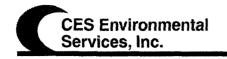
http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 JR UNIVETUR

SECTION 1: Gener	ator informatio)n		-				,					
Company:	Rio Tinto Mir	nerals											
Address :	17509 Van F	ld, 17509	Van Rd.	•••••				· • ·				· -	
City, State, Zip :	Houston TX	77049											
Contact :	Michael Willi	ams	· ·	•			Title:		_				
[⊃] hone No :	(281) 272-72	35		- 			Fax:	(28	31) 450-	7816	_,		
24 / HR Phone:												-	
J.S EPA I.D No :	TXR050029												
State I.D :	20609						SIC Co	de .			~~~~	. ,	
SECTION 2: Billing	Information												
SECTION 2: Billing													
Company:	Rio Tinto Mir			 - ·		 -					•		
Address :	17509 Van R		vali Ku.	~					-				· · -
City, State, Zip : Contact :	Michael Willi	·					Title :				***		
Phone No :	(281) 272-72			···			Fax:	(28	 31) 456-	7816	• •		
	•						rax.	(20	71, 100	,0,0			
SECTION 3: Gener		-1.1-0.0-											
Name of Waete :	fluoroscent II	ght bulbs					.					_	
Detalled Descrip	tion of the Pr	ocess G	enerating V	Vaste:									
ourned out light be	ulbs												
Physical State :	Llqui	d	📋 នា	udgė		[] Po	wder						
	√ l Solid		🔲 Fi	lter Cake		[] Co	mbinatio	n					
Golor :		· · ·	white		ь́о	or:					none		•••••
Specific Gravity	(Water=1) :		na	~~.	Dei	nsity:				na	. _	1	bs / gaì
Does this material	contain any to	tal phenol	ic compoun	ds7	☐ Ye	9	⊘ No						
Does this material	contain any pa	ıra substit	uted phenol	lc compo	unds?	E] Yes	6	Z) No				
s the Waste subje	ct to the benze	ne waste	operation N	ESHAP?(40 CFR F	Part 61,	Subpart	FF)		Yea	\mathbf{Z}	No	
•	2016 2019		2822 2823		2833	2834	2635	2836	2841	2842	2843	2844	2851
	2869 2873		2876 2879		2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	☑ Sing	le-Phas	□ M	ultí-Pha	se								
Container Type :	🕢 Drun	n 🔲	Tote		Truck		Other	(explai	n)				
Container Size :	55												
Number Of Units													
Is this a USEPA " If "Yes", then p						Yes onstitue	l☑ N nts Form		d hereto				
** "You" In the [ו הממור	במחתי ["	[_] D003										

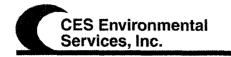
Characteristic for Toxic M		D005	□ D007	
Characteristics for Toxic	_	D009 D010 (please list all that app		
Is this on "F" or "K" Listed If "Yes", then clease II	i waste or mixed with one Ist ALL applicable codes:	?	No	
Is this a commercial prod 261.33(e) or (f)?	·	ould carry a "U" or "P"	waste code under 40 CFR	☐ Yes 🗹 No
201.33(8) 01 (1)?				
If "Yes", then please (ist ALL applicable codes:			
lexas State Waste Code	No: UNIV320	H		
Proper U.S. State Waste	Code No :	Environmentally hazar	dous substance, solid (flou	rescent bulbs)
Class: 9	UN/NA : UN30	77 P	3:	RQ: na
Flash Point	Нф	Reactive Sulfides	Reactive Cyanides	Solids
<u>na</u>	<u>na</u>	0m	g/I 0 m	g/l <u>100</u> %
Oll and Grease	тос	Zinc	Copper	Nickel
ne mg/l	namg/l	0 n	g/l 0-10 m	g/l 0-10 mg/
SECTION 4: Physical and Cl	nemical Data			
	COMPONENTS TABL	<u> </u>	Concen	tration Units
The material /	product consists of the f	ollowing materials	Ranges are	T L
	- And the state of			
SECTION 5: Safety Related [
f the handling of this wa evel d	ste requires the use of s	pecial protective equi	oment, please explain.	
SECTION 6: Attached Suppo	orling Documents			
List all documents, notes		ttached to this form a	s part of the waste approv	val package.
SECTION 7: Incompatibilitie Please list all Incompatib none				
SECTION 8: Generator's Kn Laboratory analysis of th following generators kno	e hazardous waste char	acteristics, listed belo	w, was not performe	D based upon the
TCLP Metals:	X			
TCLP Volatilies:	<u>K</u>			
TCLP Semi-Volatiles :	<u>x</u>			
Reactivity:	X	9		

corro:	sivity:
gnital	bility: <u>x</u>
ECTIO	ON 9: Waste Receipt Classification Under 40 CFR 437
-	material a wastewater or wastewater sludge? YES V NO
	i', complete this section
	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
	Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
1.00	Chromate wastes
	Air pollution control blow down water and studges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Tila Si	u <u>bcateg</u> ory: Subpart B
	Used oils
	Oll-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
\Box	Tank clean-out from petroleum or oily sources
\square	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ (<u>)os</u> S <u>ubcatagory</u> <i>Subpart C</i> Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solveni-bering wastes
\Box	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
[]	Wastewater from organic chemical product operations

	Tank clean-out from organic, non-petroleum sources		
1) if t	the waste contains oil and grease at or in excess of 100 mg/L, the waste should	i be classifi	ed in the oils subcategory
2) If the	the waste contains oil and grease less than 100 mg/L, and has any of the pollut xcess of the values listed below, the waste should be classified in the metals sub	iants listed to	below in concentrations in
Ch Co	admium: 0.2 mg/L Phromium: 8.9 mg/L Copper: 4.9 mg/L lickel: 37.5 mg/L		
3) If (t	the waste contains oil and grease less than 100 mg/L, and does not have concernickel above any of the values listed above, the waste should be classified in the	enirations o ne organics	ł cadmium, chromium, copper, subcategory.
] Metals Subcatego		
	Oils Subcatego		
	Organics Subcategory		
ECTIO	IQN 10: Additional Instruction		
Chromi	cannot determine the correct subcategory in Section 9 and you did not furnish dimium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial antrations. This will be prior to acceptance. The generator will be responsible for	l laboratory	a sample to determine these
ECTIO	ION 11; Generator's Cartification		
above deliber disclos	nformation contained herein is based on 🗹 generator knowledge and/or e and attached description is complete and accurate to the bast of my knowledge and/or erate or willful omissions of composition properties exist and that all knowledge. I certify that the materials tested are representative of all materials described and continuous.	vledge and In or suspe escribed b	d ability to determine that no octed hazards have been by this document.
Autho	ed Name / Title: HSE Manager	Date:	7/29/09
Printe	ed Name / Title: HSE Manager		
	USE ONLY (DO NOT WRITE IN THIS SPACE)		s Facility Information :
Comp	o: 1-30-09 Status: Approved Rejected		
Date :	: 1-30-09 Status: Approved Rejected		
Appro	roval Number: 3444		

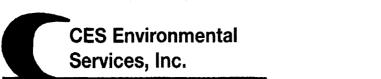


1. Base Pricing (including freight):	
4'-\$1.25 leach	Shillded Flooresant - A1.90/Back Ubend/Circulan - #1.35/1acm Urone - #1.80/0acm +110- \$1.70/each
5-\$1.50 leach	Ubend Crum - #1.35/1acm
5'-#1.50 leach Compacts-\$1.25 lach	3000 - 4180109Ch
2. Contamination Limit (maximum limit before surcha	·
2. Containmetion Line (maximum mine before surene	αμε αμμιγί.
	·
3. Surcharge Pricing:	
	·
4. Special Testing Requirements:	
5. Treatment and Handling Protocol:	
BIK to light recyclic	after Noting Ward Tor
accounting	
6. Treated Wastewater Discharge Subcategory:	
☐ Subcategory A ☐ Subcategory B	☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	

3445 Smith Internationals 7 (-35 LRS 09



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Mike Boozer MC-35

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3445

Expiration Date 7/30/2011

Generator: Smith International **Address:** 16740 Hardy Street

Houston, TX 77032

Waste Information

Name of Waste: Ethylene Glycol TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Used as an anti-freeze

Color: Pale Green

Odor: None pH: Na

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D, with use of a half mask respirator with organics cartrige if airborne exposure lin

is surpassed by ten.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

JR Recycle
Recycle
Phony Howston



U.S. EPA ID	4904 G Phone (71 Number: 1	riggs Ro 3) 676-1 IXD0089	ad, Houston, TX 1460 Fax: (713) 150461 ISWI Waste Permit Ni	77021 676-1460 R Number:			24: Pho	nyronmental Se 20 S. Gulfway Dr. one (713) 676-146 lumber: TX80000	, Port Arti iO Fax: (hur, TX 7764	1 50	B8585
SECTION 1:	General	or info	rmation									
Company:	Smith In	ternati	onal									
Address:	16740 H	lardy St	reet									
City:	Houston	1		5	teto:	TX		Zip:				77032
Contact;	Mike Bo	одег				Title:						
Phone Num	ıber:	28	1-233-5558			Fax Numb	er:					
24/hr Phon	e Numbe	or: <u>28</u>	1-794-9682			-						
US EPA ID N	la:	TX	CESQG									
State ID No	:	CE	SQG			SIC Code:						
SECTION 2: Company:	Smith In	ternatik	onal	ome as Al	ove	_ 	_			·		
Address:	<u>₽.O. Bo</u>	66668	- 167	<u>40_</u>	<u> </u>	کے بناے	Ź 7	rect				
City:	Houston			S	tate:	TX/		,	205-0068			
Contact:	Michael	Boozer	·			Title:		HSE Manager				
Phone Num	ber:	28	1-233-5838			Fax Numb	DT:	281-233-5620				
Name of Wi Detailed De	este: scription	Et! of Pres	ntion of the Wa nylene Glycol ress Generating	· · · · · · · · · · · · · · · · · · ·	·············	<u>.</u>	,					······································
Used as an a	tos: [☑ Lkq ☑ Sol	uld Id	_	ludge liter Cake	[Powder Combination			-	
Coler:	Pale Gre	en			,	Odor:		None				
Specific Gra	vity (wet	er=1):		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.1			Density:	2.14	bs/gal		
Does this ma	ateriai co	ntaie a	ny total pheno	lic compo	unds?	□ Y	65	☑ No				
Does this m	nterial co	ntain a	ny para sobstit	uted pher	solic comp	ounds?		Yes	⊘ N	ło		
	-			-		•		61, Subpart FF) clity is one of th	e followi	Yes	Ø	No
2812	2	313	2816	2819	2821	28	22	2823	2824	2833		2834
2835	28	336	2841	2842	2843	28	44	2851	2861	2865		2869
2873	2	374	2876	2879	2891	28	92	2893	2896	2899		2911
3312	49	9 53	4959	9 511								
Ĺayers;	7	iingle-p	_	Multi-pi								
Container Ty	ype:] Dru	ım 🔲 Toti	יד 🔲 י	ruck 🗹	Other (exp	lah	1)				
•	Wee 15-gal. €	•	Monthly [Yearly 🗹	One-Tin	n e						

OH & Grease TOC Zinc Copper Nickel N/A mg/ BRL mg/ BRL mg/ BRL mg/ BRL mg/ BRL mg/ SECTION 4: Physical and Chemical Data COMPONENTS TABLE CONCENTRATOIN UNIT	17 "Yes", 1		us Waste" per opiete, sign and			Yes Transition Yes	i ✓ No uents Form attached her	eta
If "Yes", then please list ALL applicable codes: Is this a commercial product or split cleanup that would carry a "U" or "P" waste code under to CFR 261.83(e) or (f)? If "Yes", then please list ALL applicable codes: Fexas State Weste Code Number: Recycle	Characteris	tic for Toxic N	Retals:	□ D004 □ D010	□D005 □D011			eooa□
Yes No H "Yes", then please list ALL applicable codes: Proper US DOT Shipping Name: Sevironmentally Hazardous Substants, Liquid, N.O.S. (Ethylene Glycol)					e?	☐ Yes	☑ No	
Proper US DOT Shipping Name: Start	10 CFR 261.	.99(e) or (f)?		□ Y			reste code under	
>200 F N/A BRI. mg/l BRI. mg/l <1 % OH & Grease TOC Zinc Copper Nickel N/A mg/l BRI. mg/l BRI. mg/l BRI. mg/l BRI. mg/l ECTION 4: Physical and Chemical Data COMPONENTS TABLE CONCENTRATOIN UNIT The waste consists of the following materials Ranges are acceptable or 9	roper US (OT Shipping	Name: <	BINT GINNEL	n - RCI	GO GO J GEOSCHIIC	e, Ligora, 14.0.3. (Edifie)	10 CifCOif
OH & Grease TOC Zinc Copper Nickel N/A mg/l BRL mg/l BRL mg/l BRL mg/l BRL mg/l BRL mg/l ECTION 4: Physical and Chemical Data COMPONENTS TABLE CONCENTRATOIN UNIT The waste consists of the following materials Ranges are acceptable or 9	Flash	Point	pH	1	Reacti	ve Sulficies	Reactive Cyanides	Solids
N/A mg/l BRL	>2	00 F	N/A	1	BRL	mg/i	BRL mg/l	
CTION 4: Physical and Chemical Data COMPONENTS TABLE CONCENTRATOIN UND The waste consists of the following materials Ranges are acceptable or 9						4.		
	CTION 4:			LE			CONCENTRATOIN	UNITS
Ethylene Giycol 0-100 %	Th			ving materia	ls			or%
			nylene Glycol				0-100	

SECTION 3: SHALL	Narran ASIN
if the handling of this	waste requires the use of special protective equipment, please explain.
Level D, with use of a	half mask respirator with organic cartrige if airborne eposure limit is surpassed by ten.
SECTION 6: Attached	Supporting Documents
List all documents, no	otes, data and/or analysis attached to this form as part of the waste
approval package.	None
white and an investment	
SECTION 7: Incompa	eihiiting
Please list ALL incomp	
None	seminar fil arith
110114	
ETETION O. Garage	ud- Verridades Carresculation
	er's Knowledge Documentation
	f the hazardous waste characteristics, listed below, WAS NOT PERFORMED
based upon the follow	ving generator knowledge:
TCLP Metals:	BRI.
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	Non-Reactive
Corrosivity:	Non-Corrosive
Ignitability:	> 200
SECTION 9: Waste Rec	aint Classification Under 40 CFR 437 (Prinining to Pre-Treatment Requirements for Centralized Waste
Treatment Facilities	
	terial a wastewater or wastewater sludge?
ir Yes	s', complete this section.
DI FACE C	HECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Littlene el	less the thursdain bour a mountablemis correctly as in the sour sacr-
Mictals Subcategory : 5	Subpart A
Spent elec	ctroplating baths and/or sludges
	shing rinse water and sludges
Chromate	
	on control blow down water and sludges
	dizing solutions
	on wastewaters aid mercury
Cyanide-cy	ontaining wastes greater than 136 mg/l
	ds and bases with or without metals
20.0	rinsing, and surface preparation solutions from electropiating or phosphating operations
	deburring wastewater
Alkaline ar	nd acid solutions used to clean metal parts or equipment
Olls Subcutegory: Subp	art 8
Used oils	emulsions or mixtures
Lubricants	
Coolants	
= '	ated groundwater clean-up from petroleum sources
	oleum products
Oil spill de	
Bilge wate	
Li Rinse/wasi	h waters from petroleum sources

Interceptor wastes
Off-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources
Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
- Management to the on passing ballic masters
Organics Subcategory: Subpart C
☐ Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
Cff-specification organic product
Still bottoms
Byproduct waste glycol
Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
La Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
Trains clean-out from organic non-perforcin address
(1)
if the waste contains oil and grease at or in excess of 100 mg/l, the waste should be classified in the oils subcategory.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromkum: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
(3)
if the waste contains off and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium,
copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
Metals Subcategory
Cils Subcategory
Organics Subcategory
-
SECTION 10 Additional instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium,
Chromium, Copper, Nickel, and Oli and Grease, CES will send offsite to a commercial laboratory a sample to determine these
concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
The information contained herein is based on
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature: Mchaul Social Date: 7-30-09
Printed Name/Title: MICHAEL BOOZER/SR. HSE SMITH DE
THE THE PERIOD OF THE PERIOD O
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Volumation
Approval Number: 3445



1. Base Pricing (including freight):
to 50/5 gal. breket
9
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Recycle + Bik w) other expors.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	

MSDS Number: E5125 * * * * * Effective Date: 07/30/07 * * * * * Supercedes: 11/09/06



ETHYLENE GLYCOL

1. Product Identification

Synonyms: 1,2-Ethanediol; glycol; 1,2-Dihydroxyethane; Ethylene Alcohol; Ethulene

Dihydrate

CAS No.: 107-21-1 Molecular Weight: 62.07

Chemical Formula: CH2OHCH2OH

Product Codes:

J.T. Baker: 5387, 5845, 9140, 9298, 9300, 9346, 9356, L715

Mallinckrodt: 5001, 5037

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethylene Glycol	107-21-1	99 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)

Ball

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ETHYLENE GLYCOL Page 2 of 8

Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 3 - Severe (Life)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Vapor inhalation is generally not a problem unless heated or misted. Exposure to vapors over an extended time period has caused throat irritation and headache. May cause nausea, vomiting, dizziness and drowsiness. Pulmonary edema and central nervous system depression may also develop. When heated or misted, has produced rapid, involuntary eye movement and coma.

Ingestion:

Initial symptoms in massive dosage parallel alcohol intoxication, progressing to CNS depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse, and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow. Lethal dose in humans: 100 ml (3-4 ounces).

Skin Contact:

Minor skin irritation and penetration may occur.

Eye Contact:

Splashes may cause irritation, pain, eye damage.

Chronic Exposure:

Repeated small exposures by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. May damage the developing fetus.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, eye problems, or impaired liver, kidney, or respiratory function may be more susceptible to the effects of this substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

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Note to Physician:

Give sodium bicarbonate intravenously to treat acidosis. Urinalysis may show low specific gravity, proteinuria, pyuria, cylindruria, hematuria, calcium oxide, and hippuric acid crystals. Ethanol can be used in antidotal treatment but monitor blood glucose when administering ethanol because it can cause hypoglycemia. Consider infusion of a diuretic such as mannitol to help prevent or control brain edema and hemodialysis to remove ethylene glycol from circulation.

5. Fire Fighting Measures

Fire:

Flash point: 111C (232F) CC

Autoignition temperature: 398C (748F) Flammable limits in air % by volume:

lel: 3.2; uel: 15.3

Slight to moderate fire hazard when exposed to heat or flame.

Explosion:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Containers may explode when involved in a fire.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Toxic gases and vapors may be released if involved in a fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and oxidizing materials. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Ethylene Glycol [107-21-1]:

-ACGIH Short-Term Exposure Limit (STEL):

100 mg/m3 Ceiling (aerosol only)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NIOSH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH P100 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear oily liquid.

Odor:

Odorless.

Solubility:

Miscible in water.

Specific Gravity:

1.1 @20C/4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

197.6C (388F)

Melting Point:

-13C (9F)

Vapor Density (Air=1):

2.14

Vapor Pressure (mm Hg):

0.06 @ 20C (68F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid. Causes ignition at room temperature with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 212F(100C) with ammonium dichromate, silver chlorate, sodium chloride and uranyl nitrate.

Conditions to Avoid:

Heat, flames, ignition sources, water (absorbs readily) and incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 4700 mg/kg; skin rabbit LD50: 9530 mg/kg.

Irritation - skin rabbit: 555mg(open), mild; eye rabbit: 500mg/24H, mild.

Investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:

Has shown teratogenic effects in laboratory animals.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
		~	
Ethylene Glycol (107-21-1)	No	No	None

12. Ecological Information

Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. When released into water, this material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

Chemical Inventory Status - Part 1\Ingredient	TSCA			Australia
Ethylene Glycol (107-21-1)	Yes	Yes	Yes	Yes
Chemical Inventory Status - Part 2\			 anada	
Ingredient	Korea	_	NDSL	Phil.
Ethylene Glycol (107-21-1)	Yes	Yes	No	Yes
\Federal, State & International Regulati	ons -	Part	1\	

file://C:\Documents and Settings\jrust\Local Settings\Temporary Internet Files\Content.Ou... 7/21/2009

Ingredient	-SARA RQ	302- TPQ		-SARA 313 Chemical Catg.
Ethylene Glycol (107-21-1)	No	No	Yes	No
\Federal, State & International Re	gulati		•	
Ingredient	CERCL		261.33	
Ethylene Glycol (107-21-1)	5000	1	10	No
Chemical Weapons Convention: No TSCA 12 SARA 311/312: Acute: Yes Chronic: Yes Reactivity: No (Pure / Liquid)				No No

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

Label Precautions:

Do not breathe vapor or mist.

Use only with adequate ventilation.

Keep container closed.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If swallowed, give water or milk to drink and induce vomiting. Never give anything by mouth to an unconscious person. In all cases call a physician.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Prepared by: Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/6/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3409

Expiration Date 7/6/2011

Generator: Hydrochem Industral Services Inc **Address:** Hydrochem Industrial Services, Inc.

Deer Park, TX 77536

Waste Information

Name of Waste: Out of date carbonate

TCEQ Waste Code #: 00113191

Container Type:

Detailed Description of Process Generating Waste:

Off spec/ out of date sodium carbonate product

Color: White

Odor: None

pH: 4-10

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



Is DC/LS

U.S. EPA ID N	CES Environme 4904 Grigg Phone (713) 6 Jumber: TXD0 Q Industrial S	s Road, Ho 76-1460 08950461	ouston, TX 7 Fax: (713) 6 ISWR N	7021 76-1460 umber: 30			242 Pho	20 S. Gulfway	Services - Port Dr., Port Artho 1460 Fax: (7 00079307	ur, TX 77641)	3585
SECTION 1: Company:	Generator I											
Address:	620 Howard	Drive										
City:	Deer Park			s	State:	TX		Zip:				77536
Contact:	Larry Phillip	s				Title:		Operations	Manager			
Phone Num		281-279	-8436			Fax Numb	er:	281-479-89				
24/hr Phon		201 273	0100			-		201 175 05				
US EPA ID N		TXCESQ				•						
	-		<u> </u>			CIC C- dec			···			
State ID No	:	CESQG				SIC Code:		NA				
SECTION 2: Company: Address:	Hydrochem PO Box 820	Industria	_	ime as Ab	<u>oove</u> 							
City:	Deer Park				State:	TX		Zip:			т.	77536
Contact:	Deerraik				rate.	Title:		h.				77330
Phone Num	hor					Fax Numb	·or:					
PHONE NUM	ibei.					. Fax IVUIIIL	ei.					
SECTION 2.	Ganaral Dag	crintian c	ef the Mas	to.								
SECTION S.	General Des	Cription (or the vyas	re								
Name of Wa	aste: escription of		ate carbon									
Off spec/ou	t of date sod	ium carbo	nate prod	uct	<u> </u>							
Physical Sta	ite:	Liquid Solid		=	Sludge Filter Cake			Powder Combination	on			
Color:	white					Odor:		none				
Specific Gra	vity (water=	1):	0.86	5-1.12				Density:	7.17-9.34 lk	os/gal		
Does this m	aterial conta	in any to	tal phenoli	ic compo	unds?		Yes	✓	No			
Does this m	aterial conta	in any pa	ra substitu	ıted pher	nolic comp	ounds?		□ Y	'es ✓ N	lo		
le the Mert	o cubinet to t	.ha ha	no weeks	moret! - ·	MECHARY	IAO CED D		1 Culanta	E)	□ v _{*-}		NI-
	e subject to t								-	∐ Yes	✓	No
						•		-	f the following	-		
2812			2816	2819	2821		822		2824	2833		2834
2835		5	2841	2842	2843		844		2861	2865		2869
2873			2876	2879	2891	2	892	2893	2896	2899		2911
3312	4953	3	4959	9511								
Layers:	✓ Sin	gle-phase		Multi-p	ohase							
Container T	ype: 🔽	Drum	☐ Tote	e 🗌 T	Truck 🗌	Other (ex	plair	1)				
Frequency: Quantity:	☐ Weekly	☐ Moi	nthly 🗌	Yearly [☑ One-Ti	me						

	ous Waste" per 40CFR 261 nplete, sign and date the Und		☐ Yes rdous Constituen	✓ ts Form atta			
Characteristic for Toxic I	Metals:	□D011	□ D006	D003 (Read	_ <u></u>	□ D009	
Characteristic for Toxic (Organics: D012 thru D043 (olease list a	ii that apply)				
	ed waste or mixed with one st ALL applicable codes:	?	Yes	V	No		
40 CFR 261.33(e) or (f)?	duct or spill cleanup that w \textstyre Y st ALL applicable codes:		a "U" or "P" wa:] No	ste code un	der		
Texas State Waste Code			13191				
Proper US DOT Shipping Class: NA	Name: Non RCRA II UN/NA: NA	Non DOT Re PG:	gulated Materia NA		NA		
Flash Point	рН		ive Sulfides	Reactive		Solid	
>150 Oil & Grease	4-10	NA	mg/l	NA Cour	mg/l	0-2	%
<1500 mg/l	1000 mg/l	-	Zinc mg/i	Cop	mg/i	Nicke	mg/i
SECTION 4: Physical and	Chemical Data						
	MPONENTS TABLE			CONCENT	RATOIN		UNITS
The waste cons	ists of the following materi	als		Ranges are a			or %
	Water Carls agets		 	0-5			<u>%</u>
	dium Carbonate		 	95-1	00		%
<u> </u>							
<u> </u>							
	<u> </u>	· · · · · ·	-				

SECTION 5: Safety Rel	lated Data waste requires the use of special protective e	quinment nlesse evolsin
Standard PPE	waste requires the use of special protective ef	quipment, piease explain.
Standard FFE		
		
	Supporting Documents	
	tes, data and/or analysis attached to this form	as part of the waste
approval package.	MSDS	
SECTION 7: Incompat		
Please list ALL incompa	atibilities (if any):	
none known		
	r's Knowledge Documentation	Now MAS NOT DEDEODMED
	the hazardous waste characteristics, listed be	low, WAS NOT PERFORMED
based upon the follow	ing generator knowledge:	
TCLP Metals:	X	
TCLP Volatiles:	X	
TCLP Semi-Volatiles:	X	
Reactivity:	X	
Corrosivity:	X	
Ignitability:	X	
Facilities) Is this mate	ipt Classification Under 40 CFR 437 (Prtaining to I erial a wastewater or wastewater sludge? ', complete this section.	Pre-Treatment Requirements for Centralized Waste Treatm YES V NO
11 163	, complete this section.	
PLEASE CH	ECK THE APPROPRIATE BOX. IF NO APPROPRIAT	E CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory : Su	•	
	troplating baths and/or sludges	
Chromate	hing rinse water and sludges	
	on control blow down water and sludges	
	dizing solutions	
☐ Incineratio	on wastewaters	
	iid mercury	
	ontaining wastes greater than 136 mg/l	
	ds and bases with or without metals	
	insing, and surface preparation solutions from ele	ectroplating or phosphating operations
	deburring wastewater nd acid solutions used to clean metal parts or equi	iomant
Aikaiirie ari	ia acia solutions used to clean metal parts of equi	pment
Oils Subcategory : Subp	art B	
Used oils	- manufathara a manahakaman	
=	emulsions or mixtures	
☐ Lubricants ☐ Coolants		
=	ated groundwater clean-up from petroleum sourc	es
	pleum products	
Oil spill cle	•	
☐ Bilge wate		
	h waters from petroleum sources	

	Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or olly sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
	category: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10	Additional Instructions
Nickel, and Oil	letermine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to the generator will be responsible for the cost of the analysis.
The informati I hereby certil my knowledg properties exi materials test Authorized \$ Printed Nam CES USE On	NLY (DO NOT WRITE IN THIS SPACE)
Compliance (Date: 7- Approval Nur	2-09 Approved Rejected

From: HydroChem -NCS



1. Base Pricing (including freight):
\$45.00/drum plus freight
2. Contamination Limit (maximum limit before surchages apply):
NA (MACANA MACANA
3. Surcharge Pricing: NA
4. Special Testing Requirements:
NA
5. Treatment and Handling Protocol:
Put in class 2 solids box
6. Treated Wastewater Discharge Subcategory:
c. t. catca transcribio. Distinuige subcatego. J.
Subcatagony A Subcatagony B Subcatagony C



7. Tests for Product Recovered/Recycled (if applicable):
NA NA
8. Management for Product Recovered/Recycled (if applicable)
8. Management for Product Recovered/Recycled (if applicable) NA

MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Bicarbonate Product Description: Sodium Bicarbonate

Product Code: M223

Product Name: Sodium Bicarbonate

Molecular Formula: NaHCO₃

Generic Name: Baking Soda, Sodium Hydrogen Carbonate

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

 $\underline{\text{wt.\%}}$ $\underline{\text{CAS Registry } \#}$

Sodium Bicarbonate

100 144-55-8

COMMENTS:

Exposure limits for this product are not established. A TLV of 10 mg/m3 is recommended for dust.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White powder

IMMEDIATE CONCERNS:

No hazard in normal industrial use.

Dust may be slightly irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:

None known

ROUTES OF ENTRY:

Skin and eye contact and inhalation



Page: 2

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable Flammable Limits: Not Applicable Autoignition Temperature: None

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Scoop into appropriate containers. Flush residual with plenty of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.



Page: 3

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

STORAGE:

No special precautions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from dust, use NIOSH approved respirator with dust protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: White pH: 8.3

Percent Volatile: None

Vapor Pressure: Not Determined Vapor Density: Not Determined Melting Point: 140°F 60°C Solubility in Water: 7 at 20°C Specific Gravity: 2.16 (water=1)

COMMENTS:

pH: for a 1% solution

Water Solubility: Solubility listed above is grams per 100 grams.

10. STABILITY AND REACTIVITY

STABLE: Yes



Page: 4

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Carbon dioxide and sodium hydroxide.

INCOMPATIBLE MATERIALS:

Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Irritant. May cause pain, redness, discomfort.

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Dust is irritating.

TARGET ORGANS:

None known.

GENERAL COMMENTS:

Carcinogens: No

Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rats) = 4220 mg/kg

RTECS Number: VZ0950000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish expected.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



Page: 5

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Sodium Bicarbonate - Not Regulated

Reportable Quantity (RQ) Under CERCLA: None

Placards: None Label: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No

Pressure Generating: No

Reactivity: No

Acute: No

Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 11/03/2000



Page: 6

DATE PREPARED: 12/22/2000

MSDS No: M223 Sodium Bicarbonate

REVISION SUMMARY

Revision #: 3

This MSDS replaces the November 13, 1998 MSDS. Any changes in information are as follows: In Section 1

Approved by Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 9

Melting Temperature °F (from) Melting Temperature °C (from)

In Section 11 Target Organ

In Section 12 Ecological Comments

In Section 15
Fire Accute SARA Title III Notes

In Section 16 HMIS Health NFPA Health

NFPA CODES

Fire: 0 Health: 1 Reactivity: 0

HMIS CODES

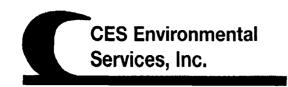
Fire: 0 Health: 1 Reactivity: 0

MANUFACTURER DISCLAIMER:

[TM] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: neutral

Waste Pre-Acceptance/Approval Letter

Date 7/9/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3420

Expiration Date 7/9/2011

Generator: Praxair (Deer Park)

Address: 622 Tidal Road

Deer Park, TX 77536

Waste Information

Name of Waste: Gasoline

TCEQ Waste Code #: Recycale

Container Type:

Detailed Description of Process Generating Waste:

Unused gasoline from underground storage tank

Color: Brown Odor: Gasoline

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Recycle

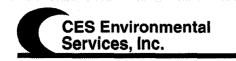


U.S. EPA ID N	Phone (713)	gs Road, Ho 576-1460 108950461	ouston, TX 71 Fax: (713) 61 ISWR No	7021 76-1460 umber: 3	0900		242 Pho	nvironmental Ser 20 S. Gulfway Dr. one (713) 676-146 lumber: TXR0000	, Port Arth 0 Fax: (7	ur, TX 77641);
SECTION 1:	Generator	Informatio	<u>on</u>								
Company:	Praxair Inc										
Address:	622 Tidal R	oad									
City:	Deer Park				State:	TX		Zip:			77536
Contact:	Kiranmai V	alluri				Title:					
Phone Num	ber:	281-954	-1867			Fax Num	ber:				
24/hr Phon	e Number:					_					
US EPA ID N	lo:	TXD008	073421								
State ID No	:				30296	SIC Code:	:				
SECTION 2: Company: Address:	Pra	xair	_	me as A	Nove	- Anna St Parity Hills - St. St. St. St. St. St. St. St. St. St.					
City:		wanda		<u>DR</u>	State:	IIU		Zip:	4151		
Contact:		WNA V				Title:		ACCOUNT		e pechin	
Phone Num		716	-879-7	2574		Fax Num	ber:	716-8			
SECTION 3: Name of War	aste:	scription (of the Wasi	<u>te</u>							
unused gase		ndergroun Liquid	d storage t	ank	Sludge	***************************************		Powder	,		
r nysicai sta		Solid			Filter Cake	:		Combination			
Color:	brown					Odor:		gasoline			
Specific Gra	vity (water	-1):	*		0.85	<u>i</u> _		Density:	8 11	bs/gal	
Does this m	aterial cont	ain any to	tal phenoli	c comp	ounds?		Yes	☑ No			
Does this m	aterial cont	ain any pa	ira substitu	ited phe	enolic comp	oounds?		☐ Yes	☑ N	lo	
	s" if your wa 281 283 287	iste contai 3 6 4		·	_	de from yo	_	2851	ne followi 2824 2861 2896	Yes ng: 2833 2865 2899	2834 2869 2911
Layers:	☑ Sir	igle-phase	. 🗆	Multi	-phase						
Container T	уре:	Drum	☑ Tote	. 🗆	Truck _	Other (ex	cplair	1)			
Frequency: Quantity:	Weekl		nthly 🔲	Yearly	☑ One-T	ime					

			er 40CFR 261.3 d date the Unde		Yes Yes	_	No ached hereto		
If "Yes", Is it: Characteristic fo Characteristic fo	or Toxic M		☐ D004 ☐ D010	□D011	□ D006	D003 (Rea		□ 0009	
Is this an "F" or If "Yes", then				?	☐ Yes	Z] No		
Is this a comme 40 CFR 261.33(e If "Yes", then	e) or (f)?		□ Y		a "U" or "P" wa] No	iste code u	nder	######################################	-
Texas State Wa			ata	Recycle	C 1		_		
Proper US DOT:		Name: UN/NA:	Gasoline, 3, UN1203	PG:	<u> </u>	RQ:	NA		
Flash Poi	nt		рH	Reacti	ve Sulfides	Reactive	e Cyanides	Sol	ids
<140		ne	utral	0	mg/l	0	mg/l	<1	%
Oil & Gre	ase	7	oc .		Zinc	Co	pper	Nic	kel
>1500	<u>mg/l</u>	>1500	mg/l	0	mg/l	0	mg/l	0	<u>mg/l</u>
SECTION 4: Phy	sical and	Chemical Dat	ta						
	CON	PONENTS T	ABLE			CONCEN	TRATOIN		UNITS
	CON	APONENTS T.		als			TRATOIN acceptable		UNITS or %
	CON	PONENTS T	ABLE	als		Ranges are			
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
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	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%
	CON	APONENTS T.	ABLE	als		Ranges are	acceptable		or%

			f special protective equ	ipment, please exp	lain.	
	ments, notes	opporting Documents, data and/or analysis	attached to this form a	s part of the waste		
	•	ilities bilities (if any):				
Laboratory	analysis of th	Knowledge Docume e hazardous waste ch g generator knowledg	aracteristics, listed belo	w, WAS NOT PERF	ORMED	
TCLP Metal:	s:	x				
TCLP Volatil	les:	X				
TCLP Semi-\	Volatiles:	X				
Reactivity:		X				
Corrosivity:		X				
Ignitability:		X				
SECTION 9: Facilities)	Is this mater	t Classification Under 4 ial a wastewater or was complete this section.		e-Treatment Require	ements fo	r Centralized Waste Treatment NO
	PLEASE CHE	CK THE APPROPRIATE B	OX. IF NO APPROPRIATE	CATEGORY, GO TO T	HE NEXT I	PAGE.
	Metal finishi Chromate w Air pollution Spent anodia Incineration Waste liquid Cyanide-con Waste acids Cleaning, rin	plating baths and/or sl ng rinse water and slud astes control blow down wat zing solutions wastewaters mercury taining wastes greater t and bases with or with sing, and surface prepa burring wastewater	ges er and sludges han 136 mg/l		ating ope	rations
Oils Subcate	Lubricants Coolants Contaminate Used petrole Oil spill clear Bilge water	nulsions or mixtures ed groundwater clean-u eum products	p from petroleum sources sources			

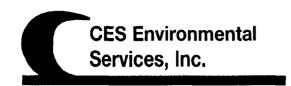
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
<u> </u>	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
느	Aqueous and oil mixtures from parts cleaning operations
L.	Wastewater from oil bearing paint washes
Organics Sub	category : Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
<u></u>	Byproduct waste glycol
<u></u>	Wastewater from paint washes
느	Wastewater from adhesives and/or epoxies formulation
<u> </u>	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
(1)	
\	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	Oils Subcategory
	Organics Subcategory
SECTION 10	Additional Instructions
If you cannot	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
	el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This
	to acceptance. The generator will be responsible for the cost of the analysis.
was be prior	to acceptance, the generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	tion contained herein is based on generator knowledge and/or analytical data.
	tify that the above and attached description is complete and accurate to the best of
	ge and ability to determine that no deliberate or willful omissions of compostion
	xist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
	and the state of t
Authorized	Signature: Mucheal R. Mustion Date: 07-08-09
Printed Nan	ne/Title: Micheal R. Mustion SES specialist
ACC 1107 A	VVDO VOT VIDET IN THE COACE
CES USE ON	LY (DO NOT WRITE IN THIS SPACE)
	No by Fill 4
Compliance	
Date: 7	7-8-09 Approved Rejected
Approval Nu	ımber:



1. Base Pricing (including freight):
\$95.00/tote plus field service charges
2. Contamination Limit (maximum limit before surchages apply):
make sure the metrial anterims to the profile.
3. Surcharge Pricing:
NA
4. Special Testing Requirements:
Check compatability with lightends
5. Treatment and Handling Protocol:
mix with lightends
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered	ed/Recycled (if applicable):		
NA			
			
	Recovered/Recycled (if applicable)		
8. Management for Product I	Recovered/Recycled (if applicable)		
	Recovered/Recycled (if applicable)		



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/9/2009

Dear Debbie Topor

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3421

Expiration Date 7/9/2011

Generator: Old World Industries DBA ZXP Technologies

Address: 409 East Wallisville Road

Highlands, TX 77562

Waste Information

Name of Waste: Unused Liquid Product - Geniosil GF 20

TCEQ Waste Code #: FM252191

Container Type:

Detailed Description of Process Generating Waste:

Product no longer needed

Color: colourless to yellowish Odor: slight pH: 5-9

Physical State:

Incompatibilities: WATER, HUMIDITY CREATES EHTANOL

Safety Related Data/Special Handling:

LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. #3421



4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948

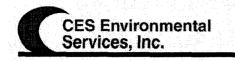
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Genera	tor I	<u>nformati</u>	on										
Company:	Old Wo	rld I	ndustries	DBA ZX	P Techno	logies	_							
Address:	409 Ea	st Wa	allisville F	Road										
City:	Highlar	ıds				State:	TX		Zip:					77562
Contact:	Debbie	Тор	or			_	Title:		Senior Ti	ranspo	rtation Man	ager		
Phone Num			847-55	9-2193			Fax Nur	nber:	847-664	7193				
24/hr Phone	e Numb	er:	224-62	3-9914										
US EPA ID N			TXP490	349904										
State ID No:	}		XXX12				SIC Cod	e:						
														-,
SECTION 2:	Billing I	nfor	mation -		Same as	Above								
			ndustries											
Address:			ercial Av						··········					
City:	Northb					State:	IL		Zip:					60062
•	Debbie					-	Title:							
Phone Num		TO p.	847-559	-2193				nber:	847-664-	7193				
SECTION 3:	Genera	i Des	cription	of the W	aste									
<u> </u>					_									
Name of Wa	seto.		Unused	Liquid P	roduct .	- Ge	niosi	\mathcal{L}	F 2	0				
Detailed De		n of E	Process 6	eneratir	o Waste	90	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u>, </u>					
betanea be.	oci ipilo.		100033	ici ici acii	B staste.									
Product no I	onger n	eede	d											
TTOUGET NO.	onger it		<u> </u>				··							
Physical Stat	te•	V	Liquid		П	Sludge			Powder					
i nysicai sta		\Box	Solid		님	Filter Cal	vo.	H	Combina	tion				
		L	30114			11101 00.		لـــا						
Color:	colourle	acc tr	yellowi:	:h			Odor:		Slight					
	COICUIN	233 66	yenow.	···		-	Out.		Sugne					
Specific Grav	vitu lwa	ter=1	1}.			1.0	19		Density:		9 lbs/	oal .		
Specime dia	only (sea		-1-						Denoity.			507		
Does this ma	aterial c	onta	in any to	tal nhon	alic come	winds?	П	Yes	Į.] No				
DOCS CHISTIN	ateria. e	Onta		tai piicii	one comp		لبا	163	L.					
Does this ma	atorial a		in anu a		ituate of the	enelle son				Voc	[] No			
Dues tins in	ateriai C	Uiila	m any pe	ira supsi	ituteu pii	enone con	iipouiiast		L	Yes	☑ No			
la tha 18/aata	au bia a		h- h			on BIFCUA	03 <i> 40 C</i> ED	Dank (=1 Codema	EE1	(7	Van	(-	ħ1 _m
Is the Waste Answer "Yes											لــا معالمسامع	Yes	4	No
	•						,		,		ū			2024
2812		2813		2816	2819			2822			2824	2833		2834
2835		2836		2841	2842		-	2844			2861	2865		2869
2873		2874		2876	2879		1	2892	289	13	2896	2899		2911
3312	4	4953		4959	9511									
Layers:	v	Sing	le-phase	[] Mult	i-phase								
Container Ty	rpe:	v	Drum	☐ To	te 🗀	Truck [Other (e	xplair	1)					
								,	•					
Frequency:	☐ We	ekiy	☑ Moi	nthly 🗀	Yearly	☑ One-	Time							
Quantity:					5	-								

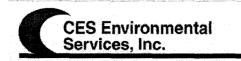
Is this a USEPA "Hazardo If "Yes", then please con				Yes		No ttached here	to	
If "Yes", is it:] D001 (Ignital	ole) 🗆	D002 (Cor	rosive)] D003 (Rea	ctive)		
Characteristic for Toxic !		☐ D004		•			□ D009	•
		□ D010	□D011					
Characteristic for Toxic C	Organics: D012	2 thru D043 (please list a	ill that apply)				
Is this an "F" or "K" Liste If "Yes", then please is			e?	☐ Yes	<u> </u>	No		
Is this a commercial proc 40 CFR 261.33(e) or (f)? If "Yes", then please (ii		□ Y		a "U" or "P" w] No	aste code u	nder		
Texas State Waste Code	Number:		FM252191			-		
Proper US DOT Shipping	Name:	Non-RCRA,	Non-DOT R	egulated Mate	rial (3-trieth	oxysilylprop	yl succinic a	icid)
Class: N/A	UN/NA:	N/A	PG:	N/A	RQ:	N/A		
Flash Point	p			ve Sulfides		Cyanides		ids
>200	5-		BRL	mg/l	BRL	mg/l	0	%
Oil & Grease	TC	·	L	Zinc	Col	pper	Nic	kel
<1500 <u>mg/l</u>	<1500	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l
<1500 mg/l SECTION 4: Physical and	<u> </u>		BRL	<u>mg/l</u>	BRL.	mg/l	BRL	<u>mg/l</u>
SECTION 4: Physical and	Chemical Data	a BLE			CONCENT	RATOIN	BRL	mg/l UNITS
SECTION 4: Physical and CON The waste consi	Chemical Data IPONENTS TA ists of the follo	a BLE owing materia			CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT	RATOIN acceptable	BRL	UNITS
SECTION 4: Physical and CON The waste consi	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
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SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
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SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
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SECTION 4: Physical and CON The waste cons	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %
SECTION 4: Physical and CON The waste consi	Chemical Data MPONENTS TA ists of the folio Geniosil GF 20	a BLE owing materia	als		CONCENT Ranges are	RATOIN acceptable	BRL	UNITS or %

	i Sarety Kei ling of this w		e of special protective ed	quipment, please e	xplain.	
	uments, note	upporting Docume es, data and/or anal MSDS	nts ysis attached to this form	as part of the was	te	
Please list /	: Incompati ALL incompa midity create	tibilities (if any):				
Laboratory	analysis of t	s Knowledge Docur he hazardous waste ng generator knowle	characteristics, listed be	low, WAS NOT PE	RFORMED)
TCLP Metal	k:	BRL				
TCLP Volati		BRL				
TCLP Semi-	Volatiles:	BRL		· · · · · · · · · · · · · · · · · · ·		
Reactivity:		Non-Reactive				
Corrosivity:		Non-Corrosive	······································			
Ignitability:		Non-Ignitable	······································			
-						
SECTION 9:	Waste Receip	t Classification Under	40 CFR 437 (Prtaining to P	re-Treatment Requi	rements fo	r Centralized Waste Treatment
Facilities)		rial a wastewater or w complete this section	•		☐ YES	✓ NO
	PLEASE CHE	CK THE APPROPRIAT	E BOX. IF NO APPROPRIAT	E CATEGORY, GO TO	O THE NEX	T PAGE.
Oils Subcate	Metal finish Chromate w Air pollutior Spent anodi Incineration Waste liquic Cyanide-con Waste acids Cleaning, rir Vibratory de	oplating baths and/or- ing rinse water and sl- astes control blow down wating solutions wastewaters mercury taining wastes greate and bases with or with sing, and surface pre- burring wastewater acid solutions used to	udges vater and sludges r than 136 mg/l		hating ope	erations
		nulsions or mixtures				
	Lubricants					
	Coolants					
			-up from petroleum source	\$		
		eum products				
	Oil spill clear Bilge water	rup				
		waters from petroleu	m sources			

	Interceptor wastes
	Off-specification fuels
بيا	Underground storage remediation waste
	Tank clean-out from petroleum or oily sources
<u>_</u>	Non-contact used glycols
Ļ	Aqueous and oil mixtures from parts cleaning operations
Ļ_	Wastewater from oil bearing paint washes
Organics Su	bcategory: Subpart C
<u>0.90,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>] Landfili leachate
—	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
Ĺ	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
-	Wastewater from adhesives and/or epoxies formulation
L	Wastewater from organic chemical product operations
L	Tank clean-out from organic, non-petroleum sources
/13	
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
	the waste contains on and grease at or in excess of 100 mg c, the waste should be classified in the one subcategory.
(2)	
,	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	Nicker, 37.3 Hig/L
3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
ECTION 10	Additional Instructions
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	tion contained herein is based on
	tify that the above and attached description is complete and accurate to the best of
•	Ige and ability to determine that no deliberate or willful omissions of compostion
	xist and that all known or suspected hazards have been disclosed. I certify that the
naterials te	sted are representative of all materials described by this document.
Authorized	Signature: Date: 7/9/09
rinted Nan	ne/Title: Debbite Popor/Sr. Transportation Manager
ES USE ON	LY (DO NOT WRITE IN THIS SPACE)
	1 21
Compliance	Officer: Propher/Z/Kangla
Date: 7	- 9-09 Approved Rejected
pproval Nu	



1. Base Pricing (including freight):	
\$65 / DM for disposal, \$70 / hr + FSC w/ 4 hr min.	
2. Contamination Limit (maximum limit before surchages apply):	
3. Surcharge Pricing:	
4. Special Testing Requirements:	
5. Treatment and Handling Protocol:	
Bulk to Newpark	
6. Treated Wastewater Discharge Subcategory:	·
o. Heaten wastewater Districting Subcategory:	
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C	



7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	



PMASTL

Material Safety Data Sheet

Material:

GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

Product and company identification

1.1 Identification of the substance or preparation:

Commercial product name:

Product group:

Use of substance / preparations

GENIOSIL® GF 20 Intermediate

Industrial.

Intermediate chemical

1.2 Company/undertaking identification:

Manufacturer/distributor:

Wacker-Chemie GmbH

Hanns-Seidel-Platz 4

81737 München

Germany

Customer information:

Wacker Chemical Corporation

3301 Sutton Road

Adrian, Michigan 49221-9397

USA

Customer Care Center:

Tel (517) 264-8240, Fax (517) 264-8740

Hours of operation:

Monday - Friday, 8 am to 5 pm (eastern standard time)

Corporate website: www.wackersilicones.com

Emergency telephone no. (24h):

Transportation emergency:

(517) 264-8500

(800) 424-9300 [CHEMTREC, USA] (703) 527-3687 (CHEMTREC, international)

(613) 996-6666 (CANUTEC, Canada)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

Composition/information on ingredients

2.1 Chemical characterization (substance):

Cas no.	Chemical characteristics
93642-68-3	Dihydro-3-(3-{triethoxysilyl)propyl}-2,5-furandions

2.2 Information on impredients:

Type	CAS No.	Substance	Content	[wt. %]	Note
	·		Lower	Upper	}
INHA	93642-68-3	3-Triethoxysilylpropyl succinic acid	>=100.0	<=100.0	
NEBE	64-17-5	Ethanol	varies	varies	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** Note: C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

This material does not contain any OSHA or WHMIS reportable hazardous ingredients.

Substances listed in the Subsections HAFS and California Proposition 65 Carcinogens / Reproductive Toxins that are not listed in Section 2 are only present at quantities below 0.1% or they are inextricably bound in the product.

Material Safety Data Sheet

Material:

GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

Hazards identification

3.1 Basards classifications

HMISO rating (product as packaged);

Health: 1

Fire: 1

Reactivity: 1

PPE: B

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Canadian WHNIS Classification: None.

3.2 Emergency overview and potential hazards

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:

No known physical hazards.

Acute health effects

Route of entry or possible contact:

eyes , skin , inhalation , ingestion .

Bye contact:

May cause slight eye irritation.

Skin contact:

May cause slight skin irritation.

Inhalation:

No acute toxic effects are known.

Industion:

Not expected in industrial use.

Additional information on acute health effects:

This material releases ethanol (sthyl sloohol) upon hydrolysis, Ethanol (CAS-No. 64-17-5) is an irritant to the eyes and mucous membranes, Overexposure has been shown to cause central nervous system depression. Direct contact with the eyes will cause burning and stinging. EFA statement: Skin sensitization can not be excluded based on structural activity relationship.

3.3 Further information:

Chronic health effects:

none known . See Sect. 3.2 *Additional information on acute health effects".

Medical conditions which may be aggravated by exposure:

unknown

Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

First-aid measures

4.1 General information:

In cases of sickness seek medical advice (show label if possible).

4.2 After inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Set medical attention. Designate the product.

.3 After contect with the skin:

If contact with skin, wash skin with plenty of water or with water and soap. Remove contaminated clothing and shoes immediately. Get medical attention if symptoms occur. Clean contaminated clothing and shoes before reuse.

4.4 After contact with the eyes:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min. Get medical attention immediately. Designate the product.

Material Safety Data Sheet

Material:

GENIOSIL® GF 20

Version: 1.9 (MS)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

4.5 After swallowing:

If swallowed, give victim neveral glasses of water. Get medical attention immediately. Designate the product.

Fire-fighting measures

5.1 Flammable properties: Flash point...

...... > 100 °C (> 212 °F)

(DIN 51758)

Mathod

Boiling point / boiling range...... 152 °C (305 °F) at 0.4 hPa Lower explosion limit (LEL) not determined

Upper explosion limit (UEL)..... not determined

(DIN 51794)

5.2 Fire and explosion hazards:

Hydrolyzes on contact with moisture releasing ignitable vapors. Consider possible formation of explosive mixtures with air, for example in uncleaned containers by moisture. Explosion limits for hydrolysis product: 3.5-15% v/v (ethanol)

5.3 Recommanded extinguishing media:

water-mist , dry chemical , alcohol-resistent foam or carbon dioxide .

5.4 Unsuitable extinguishing media:

sharp water jet .

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Hazardous combustion products: carbon dioxide , carbon wonoxide , silicon dioxide , ethanol and incompletely burnt hydrocarbons .

5.6 Fire fighting procedures:

Cool endangered containers with water. Fire fighters should wear full protective clothing including a positive pressure self-contained breathing apparatus.

Accidental release measures

Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin, Avoid inhaling mists and vapours, If material is released indicate risk of slipping.

HAZWOPER PPE Level: D

6.2 Containment:

Prevent material from entering surface waters, drains or sewers and open soil. Contain any fluid that runs out using suitable material (e.g. earth), Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8602.

6.3 Methods for cleaning up:

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapours.

5.4 Further information:

Eliminate all sources of ignition.

Handling and storage

Material Safety Data Sheet

Material:

GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

7.1 Handling

Precautions for safe handling:

Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.2. Spilled substance increases risk of slipping.

Precautions against fire and explosion:

Vapours may form in closed rooms with air mixtures, leading to explosion in the presence of sources of ignition, even in empty, uncleaned vessels. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Storage

Conditions for storage rooms and vessels:

none known

Advice for storage of incompatible materials:

not applicable

Purther information for storage:

Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place.

8 Exposure controls and personal protection

1 Engineering controls

Ventilation:

Use only with adequate ventilation.

Local exhaust:

recommended

8.2 Associate substances with specific control parameters such as limit values

Maximum sirborns concentrations at the workplace

CAS No.	Material	Type	mg/m³	tstom	Dust Fract.
	Ethanol	osha pel	1,900.0	1,000.0	
64-17-5	Sthanol Standard	ACGIH TWA		1,000.0	

8.3 Personal protection equipment (PDB)

Respiratory protection:

In case of long or strong exposure use a NIOSH approved respirator for: organic vapors .

Alternatively use a positive pressure, air-supplied respirator.

Hand protection:

butyl rubber protective gloves

Eye protection:

tight fitting chemical safety goggles

Other protective clothing or equipment:

protective clothing to cover exposed areas of arms, legs and torso . Provide work station with emergency shower and eye-bath.

8.4 General hygiene and protection measures;

Avoid breathing dust/vapor/mist/gas/aerosol. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

9 Physical and chemical properties

9.1 Appearance

Physical state / form..... liquid

Colour..... colourless - yellowish

Odour..... slight

9.2 Safety parameters

. Hethod

Melting point / melting range.....: < -30 °C (< -22 °F) Boiling point / boiling range.....: 152 °C (305 °F) at 0.4 hPa

Flash point..... > 100 °C (> 212 °F)

Ignition temperature 250 °C (482 °F) Lower explosion limit (LEL)..... not determined

(DIN 51758) (DIN 51794)

(DIN 51757)

Source

WACKER SILICONES

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Upper explosion limit (UEL)..... not determined

Vapour pressure..... < 1 hPa at 20 °C (68 °F)

Density..... 1.09 g/cm3 at 25 °C (77 °F)

Water solubility / miscibility.....; virtually insoluble

pH-Value..... not determined

Viscosity (dynamic)...... 20 - 35 mPa*s at 25 °C (77 °F)

9.3 Further information

Re 9.2 solubility in water: Hydrolytic decomposition occurs. Explosion limits for released ethanol: 3.5 - 154(V).

10 Stability and reactivity

10.0 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

- 10.1 Conditions to avoid:
- moisture
- 10.2 Materials to avoid:

Reacts slowly with: water . Reaction causes the formation of: ethanol . Reacts with: basic substances . Reaction causes the formation of: heat .

- .0.3 Hazardous decomposition products:
- Under the effect of humidity, water and protic agents: ethanol .
- 10.4 Further information;

Hazardous polymerization cannot occur.

11 Toxicological information

- 11.1 General information:
 - Toxicological testing has been conducted with this material,
- 11.2 Toxicological datas

Acute toxicity (LD50/LC50-values relevant to classification):
Exposition Value/value range Species

oral	> 2000 mg/kg	rat (Limit Test)	test report
Primary izzit	atlon		
Exposition	Effect	Species/Testsystem	Source
to skin	mildly irritating	rabbit	test report
to eyes	mildly irritating	rabbit	test report

Reference points for mutagenic (carcinogenic) potential:

Test system		
		Bource
Mest pystam	深ffect	
		
Bacterial Reverse Mutation Test	bot mutagenic	test report

12 Ecological information

12.1 Information on elimination (persistence and degradability)

Biodegradation / further information:

The hydrolysis product (Ethanol) is easily biologically degradable.

Further information:

By hydrolysis: ethanol and silamol- and/or siloxanol-compounds . Silicone content: Elimination by adsorption in activated sludge.

12.2 Mehaviour in environmental compartments

Mobility

Further information:

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Date of last alteration: 08/27/2004

12.3 Ecotoxicological effects:

Species	Test method	Exp. Time	Result	Source	
zebra fish (Brachydanio rerio)	acute	96 h	>= 100 mg/l (NOEC)	test report	
zebra fish (Brachydanio	acute	96 h	> 100 mg/l (LC50)	test report	
rerio)	·		<u></u>	(<u> </u>	

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

Test system	Вир.	Time	Resu	lt		Source	: 4
sludge	3 h		819 :	mg/1	(BC50)	test	report
sludge	3 h		150	mg/l	(EC20)_	test	report

Do not introduce large amounts into purification plants.

12.4 Further ecological information

Other harmful effects

General information:

Prevent material from entering surface waters, drains or sewers and open soil.

13 Disposal considerations

13.1 Product disposal

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging diposal

Recommendation

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information

14.1 US DOT & CANADA TOG SURFACE

Valuation..... Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation..... Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation..... Not regulated for transport

15 Regulatory information

15.1 U.S. Pederal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCIA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EMB Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

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SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPR:

This material does not contain any hazardous air pollutants.

15.2 U.S. State regulations

California Proposition 65 Carcinogens:

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Eszardous Substance List:

This material contains no listed components.

Pannsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

5.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

None.

DSL Status:

This material or one or more of its components is not listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

Cas No.	Chamical.	Upper limit wt. %
93642-68-3	3-Triethoxysilylpropyl succinic acid anhydride	100.0

Canadian Ingredient Disclosure List:

This material contains no listed components.

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations

KU Risk Phrases:

g-Phrase Description	
R-Phrase Description	
n	
BC~ I=	(

EU Safety Phrases:

	Description
js-	-

Details of international registration status

bisted on the following inventories:

IECSC - China

ECL - Korea

AICS - Australia

EINECS - Europe

Material Safety Data Sheet

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Date of last alteration: 08/27/2004

Other information

15.1 Additional information:

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental

Industrial Hygienists

DOT - Department of Transportation

hPa - Hectopascals

mPa*s - Milli Pascal-Seconds OSBA - Occupational Safety and Health Administration PEL - Permissible Exposure Limit

Flash point determination methods

ASTM D56

ASTM D92, DIN 51376, ISO 2592

ASTN D93, DIN 51758, ISO 2719 ASTN D3278, DIN 55680, ISO 3679

DIN 51755

16.3 Conversion table:

Pressure:

1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa

1 mPa+s = 1 Centipoise [Cp]

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average WHMIS - Canadian Workplace Hazardous Materials

Identification System

Common name

Tagliabue (Tag) closed cup Cleveland open cup

Pensky-Martens closed cup

Setaflash or Rapid closed cup



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: Neutral

Waste Pre-Acceptance/Approval Letter

Date 7/13/2009

Dear Bruce Riffel

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3422

Expiration Date 7/13/2011

Generator: Quest Chemical Corporation @ Texas Tile

Address: 1705 N. Oliver

Houston, TX 77007

Waste Information

Name of Waste: Off spec/out of date product

TCEQ Waste Code #: CESQ1191

Container Type:

Detailed Description of Process Generating Waste:

Off spec / out of date material removed from customers tank

Color: White Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Odor: Mild ammonia

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



CES Environmental Services - Houston Facility

DC/LS
IN Houston

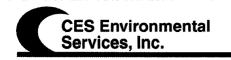
Į.			ervices - Houst	-		CES Environmental Services - Port Arthur Facility							
			d, Houston, TX			2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460							
U.S. EPA ID I			60 Fax: (713)	676-1460 lumber: 309	m				-1460 Fax: 000079307	(713) 676-14 ISWR Nun		2E25	
1			aste Permit Nu			U.S. EPA IL) NUII	INDEL IAM	AUU/ 55U/	124AV IARIS	IUCI . O	0303	
	LQ muusti	ilai Soliu 11	aste Perrint No	mber - 30340									
SECTION 1:	Genera	tor Inform	nation	_		•							
Company:	Quest (Chemical (orporation @	Texo	isTi	le							
Address:			5 W. 01										
City:	Hox	STOY	· ·		ate:	TX	Zi	ip:	7700	,			
Contact:	Bruce R					Title:				•			
Phone Nun	nber:	713	-896-8188		_	Fax Number	r: 7:	13-896-8	644				
24/hr Phon	e Numb	er:											
US EPA ID I	No:	T	xcesa)									
State ID No):	_C	XCES G	`	-	SIC Code:							
						•					_		
SECTION 2:	Billing I	nformatic	<u>m-</u> 🗹 🕏	ame as Abo	ove								
Company:	Quest (Chemical C	Corporation										
Address:	12255	FM 529											
City:	Housto	n		St	ate:	Tx	Zi	ip:				77041	
Contact:	Bruce R	tiffel				Title:							
Phone Nun	nber:	<u>713</u>	-896-8188			Fax Number	r: <u>7</u>	13-896-8	644				
SECTION 3:	Genera	Descripti	on of the Wa	<u>ste</u>									
Name of W			spec/out of da		- (<u> </u>	<u>007</u>	K 4-2	NIS!	7			
Detailed Do	escription	n of Proce	ss Generating	Waste:									
off spec/ou	t of date	material	removed from	customers	tank								
Dbt1 CA		— u	.1.1	CT of	1		٦ .						
Physical Sta	ate:	Liqu Solid Solid			udge	<u> </u>		owder					
			u	L. FII	lter Cake	L.	j C	ombinati	ON				
Color:	white					Odor:	~	nild ammo	nnin				
COIOI.	Attite					Odoi.	- ()	niu aimin	71 II a				
Specific Gra	avity (wa	ter=11:			1.03		n	ensity:	8 50	lbs/gal			
opeane are	soich ind	···			1.03	•		Citally.	- 0.3.	, 123/ Eu l			
Does this n	naterial c	ontain an	y total pheno	lic compou	nds?		es	ত	No				
			, p			··		اسما					
Does this n	naterial c	ontain an	y para substit	uted pheno	olic comp	ounds?			Yes 🔽	No			
				,		•••••		_					
Is the Wast	e subiec	t to the be	enzene waste	operation I	NESHAP?	(40 CFR Part	t 61.	Subpart	FF)	☐ Yes	v	No	
			ntains benzen	•		•	-	•					
2812	-	2813	2816	2819	2821	-		2823		-	3	2834	
2835		2836	2841	2842	2843			2851				2869	
2873		2874	2876	2879	2891			2893				2911	
3312		4953	4959	9511			_			-30			
Layers:		Single-pl	nase 🗹	Multi-pi	hase								
	_												
Container 1	Гуре:	☐ Dru	m 🔲 Tot	e 🗹 Tr	uck 🔲	Other (expla	ain)						
•						• •	•						
Frequency: Quantity:		•	Monthly 🗌	Yearly 🗹	One-Ti	me							
-CHUILLIET:	4	<u>401</u>											

Is this a USEPA "Hazardo If "Yes", then please com				☐ Yes dous Constitue		No ached hereto		
If "Yes", Is it: Characteristic for Toxic N Characteristic for Toxic O		☐ D004 ☐ D010	□ D011	□ D006	D003 (Rea		□ 0009	
Is this an "F" or "K" Liste				T) Yes	: 17	No	<u> </u>	
If "Yes", then please lis					·			
Is this a commercial proc 40 CFR 261.33(e) or (f)? If "Yes", then please lis Texas State Waste Code Proper US DOT Shipping	st ALL applicable Number:	Codes:	'es ☑ <u>CCSQ</u>	No				
Class: NA		AV	PG:	NA	RQ:	NA		
Flash Point			Boostie	e Sulfides	Booting	Cyanides	Soli	de l
>150	pH neutr	al	0	mg/i	O	mg/l	0-20	us %
Oil & Grease	TOC			Zinc	 	pper	Nic	
0 mg/l	>100	mg/l	0	mg/l	0	mg/l	0	mg/l
SECTION 4: Physical and			· · · · · · · · · · · · · · · · · · ·		1			
	APONENTS TABI		-1-		CONCEN			UNITS
	ists of the follow				Ranges are		· · · ·	or %
}- 	Deep Gloss 6 1	- 1001g	C INTOH		10	~		70

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Doop Gloss & FINDH	100	%
		

Standard	ing of this w	aste requires the use of special protective equi	pment, please explain.	
	ments, note	upporting Documents s, data and/or analysis attached to this form as MSDS	s part of the waste	
	=	ilities ibilities (If any):		
Laboratory	analysis of t	s Knowledge Documentation he hazardous waste characteristics, listed below ng generator knowledge:	w, WAS NOT PERFORMED	
TCLP Metal	s:	x		
TCLP Volati	les:	X		
TCLP Semi-	Volatiles:	X		
Reactivity:		X		
Corrosivity:	;	X		
Ignitability:		X		
SECTION 9: Facilities)	Is this mate	t Classification Under 40 CFR 437 (Prtaining to Pre rial a wastewater or wastewater sludge? complete this section.	-Treatment Reguirements fo	or Centralized Waste Treatment NO
	PLEASE CHE	CK THE APPROPRIATE BOX. IF NO APPROPRIATE (ATEGORY, GO TO THE NEXT	PAGE.
Metals Sub-	Metal finish Chromate w Air pollution Spent anodi Incineration Waste liquid Cyanide-cor Waste acids Cleaning, rir Vibratory de	oplating baths and/or sludges ing rinse water and sludges rastes n control blow down water and sludges zing solutions n wastewaters		erations
	Lubricants Coolants Contaminat Used petrol Oil spill clea Blige water	nulsions or mixtures ed groundwater clean-up from petroleum sources eum products		

	Interceptor wastes		
	Off-specification fuels		
닏	Underground storage remediation waste		
片	Tank clean-out from petroleum or oily sources		
⊢	Non-contact used glycols		
片	Aqueous and oil mixtures from parts cleaning operations		
Ш	Wastewater from oil bearing paint washes		
Organics Sub	ubcategory : Subpart C		
H	Landfill leachate		
片	☐ Contaminated groundwater cléan-up from non-petroleum sources ☐ Solvent-bearing wastes		
片	Off-specification organic product		
H	Still bottoms		
Ħ	Byproduct waste glycol		
	Wastewater from paint washes		
	Wastewater from adhesives and/or epoxies formulation		
	Wastewater from organic chemical product operations		
	Tank clean-out from organic, non-petroleum sources		
(1)			
(-)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be	e classified in th	e oils subcategory.
	,		
(2)			
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutan		n concentrations in
	excess of the values listed below, the waste should be classified in the metals subca	itegory.	
	Cadmium: 0.2 mg/L		
	Chromium: 8.9 mg/L		
	Copper: 4.9 mg/L		
	Nickel: 37.5 mg/L		
	If the waste contains oil and grease less than 100 mg/L, and does not have concents or nickel above any of the values listed above, the waste should be classified in the Metals Subcategory Oils Subcategory Organics Subcategory		• • • •
SECTION 10	O Additional Instructions		
Copper, Nick	ot determine the correct subcategory in Section 9 and you did not furnish data for the ckel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to cort to acceptance. The generator will be responsible for the cost of the analysis.		
SECTION 11	11: Generator's Certification		
The informa	nation contained herein is based on	analytical o	data.
I hereby cer	ertify that the above and attached description is complete and accurate to the b	est of	
	edge and ability to determine that no deliberate or willful omissions of compost		
	s exist and that all known or suspected hazards have been disclosed. I certify that		
	tested are representative of all materials described by this document.	ic die	
materials (C.	tested are representative of an inaterials destribed by this document.		
Authorized :	d Signature: Bulk	Date:	7-10-09
Printed Nan	ame/Title: Bruc R. FE		<u> </u>
CES USE ON	NLY (DO NOT WRITE IN THIS SPACE)		
	0		
Compliance	ce Officer: Kalywidhah		
Date: 1.	7-13-09 PApproved Rejected		
Approval Nu	,		
LAPI OAGI 140	TAITING!		



2. Contamination Limit (maximum limit before surchages apply): NA 3. Surcharge Pricing: NA 4. Special Testing Requirements: NA 5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids 6. Treated Wastewater Discharge Subcategory:	1. Base Pricing (including freight):
3. Surcharge Pricing: NA 4. Special Testing Requirements: NA 5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	\$0.65/gallon plus freight
3. Surcharge Pricing: NA 4. Special Testing Requirements: NA 5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	
3. Surcharge Pricing: NA 4. Special Testing Requirements: NA 5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	
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4. Special Testing Requirements: NA 5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	3. Surcharge Pricing:
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5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	
5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	4 Special Testing Requirements:
5. Treatment and Handling Protocol: redirect to landfill as class 1 liquids	
redirect to landfill as class 1 liquids	
redirect to landfill as class 1 liquids	
redirect to landfill as class 1 liquids	
redirect to landfill as class 1 liquids	
redirect to landfill as class 1 liquids	
6. Treated Wastewater Discharge Subcategory:	redirect to landfill as class 1 liquids
6. Treated Wastewater Discharge Subcategory:	
	6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C	Cubestanam A Cubestanam D Cubestanam C



7. Tests for Product Recovered/Recycled (if applied NA	avie).
8. Management for Product Recovered/Recycled	(if applicable)
	(if applicable)
8. Management for Product Recovered/Recycled NA	(if applicable)

_______ MATERIAL SAFETY DATA SHEET (SUBSTITUTES FOR OSHA FORM 174): May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. ________ PRODUCT NUMBER: 718 IDENTITY: DEEP GLOSS 18 Revision Date: 01/16/2007 _____ Section I ______ Manufacturer's Name: QUEST CHEMICAL CORPORATION Telephone Numbers: 12255 FM 529 Address: Emergency: NORTHWOODS INDUSTRIAL PARK 800/255-3924 HOUSTON Information: State: TX Zip Code:77041 713/8968188 ______ HMIS CODES: REACTIVITY: 0 FLAMMABILITY: 0 HEALTH: 0 PERSONAL PROTECT: A Section II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION (All of the ingredients contained in this product are listed on the TSCA inventory.) ______ Cas No. OSHA PEL ACGIH TLV OTHER LIM % Name NONHAZARDOUS Comment: THIS PRODUCT IS CLASSIFIED AS NONHAZARDOUS IN ACCORDANCE WITH THE HAZARD COMMUNICATION STANDARD, 29CFR 1910.1200 Section III: PHYSICAL/CHEMICAL CHARACTERISTICS _______ Boiling Point: 212 Specific Gravity (water=1) 1.03 Vapor Pressure (mm Hg)

Vapor Density (AIR=1)

Solubility in Water:

Vapor Density (AIR=1)

N/A

Evaporation Rate:

(Butyl Acetate=1) N/A >1 Appearance and Odor: WHITE LIQUID, MILD AMMONIA ODOR Section IV: FIRE AND EXPLOSION HAZARD DATA ______ Flash Point (Method Used): NONE Flammable Limits: LEL: N/A UEL: N/A Extinguishing Media: NONE Special Fire Fighting Procedures: NONE

Unusual Fire and Explosion Hazards: NONE

Section V: REACTIVITY DATA PRODUCT NUMBER: 718

Stability: Unstable: Conditions to avoid: Stable: X NONE KNOWN

Incompatability (Materials to Avoid): NONE KNOWN

Hazardous Decomposition or Byproducts: NONE KNOWN

Hazardous Polymerization: May Occur:

Will Not Occur: X

Conditions to Avoid: NONE KNOWN

Section VI: HEALTH HAZARD DATA

Routes of Entry: Inhalation: NO Skin: YES Ingestion: YES

Health Hazards (Acute and Chronic):

INGESTION: NAUSEA. EYES: MILD IRRITATION. SKIN: MAY CAUSE MILD IRRITATION.

Carcinogenicity: NTP:NO IARC Monographs:NO

OSHA Reg:NO

Signs and Symptoms of Exposure: SEE HEALTH HAZARDS

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures: INGESTION: GIVE WATER AND CONTACT PHYSICIAN. EYES: FLUSH WITH WATER AND CONTACT PHYSICIAN. SKIN: WASH THOROUGHLY WITH SOAP AND WATER AND CONTACT PHYSICIAN IF IRRITATION PERSISTS.

Section VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: TRANSFER PRODUCT TO SOUND CONTAINER. RINSE ANY SPILLED PRODUCT DOWN WITH EXCESS WATE. AVOID LETTING THE PRODUCT DRY AS IT MAY BE DIFFICULT TO REMOVE. IF PRODUCT DRIES

SWEEP OR SCRAPE RESIDUE OFF FLOOR.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL GUIDELINES. SMALL AMOUNTS OF WASTE MAY BE DISPOSED OF BY DILUTING WITH LARGE OUANTITIES OF WATER.

Precautions to be Taken in Handling and Storing: STORE IN A COOL DRY AREA. KEEP CONTAINER TIGHTLY SEALED. KEEP OUT OF REACH OF CHILDREN. AVOID OVERHEATING OF DRUMS OR STORAGE TANKS. AVOID FREEZING.

Other Precautions: N/A

Section VIII: CONTROL MEASURES

Respiratory Protection: N/A Ventilation: Local Exhaust:N/A

Mechanical: N/A

Special: N/A

Other: N/A

Protective Gloves:N/A

Eve Protection: SAFETY GLASSES ARE RECOMMENDED WHENEVER CHEMICALS ARE USED.

Other Protective Clothing or Equipment:

Work/Hygienic Practices:

WASH HANDS AFTER USE.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/14/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3423

Expiration Date 7/14/2011

Generator: Bioselect Fuels, Inc

Address: 4800 Old Port Industrial Rd

Galveston, TX

Waste Information

Name of Waste: Used BioDiesel Filters

TCEQ Waste Code #: Recycle

Container Type: 25 yd. box

Detailed Description of Process Generating Waste:

Filters were used to filter the biodiesel from tank #1 to tank #2

Color: Yellowish

Odor: Mild pH: Na

Physical State:

Incompatibilities: See MSDS

Safety Related Data/Special Handling:

PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

40 Jum
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SECTION 1: Gen					
Company:	BioSelect (Galveston B				
Address:	4828 Old Port Industria	·			
City, State, Zîp:	Galveston, Texas 7755	ļ			
Contact:	Steve Sams	<u> </u>	_ Title:		oker For Generator
Phone No:	281-838-3400		Fax No:	281-424-	-7/48
24/hr Phone:	281-838-3400 TVD000070127		-		
U.S. EPA I.D. No:	TXR000079137		- 576.6.1		
State I.D.	88510		SIC Code:		
CECTION 4. DOI:		4.1			
	ng Information — Same Phoenix Pollution Contro		iaaa Taa		
Company: Address:			ices, inc.		
City, State, Zip:	4808 Fairmont Parkway # Pasadena, Texas 77505	214			
City, State, Zip: Contact:	Connie Fetgatter	Title:	Accounting		
Phone No:	281-838-3400	Fax No:	Accounting 281-424-7748	,	
I mone 140:	201-030-3400	rax No:	201-424-7740	<u> </u>	
SECTION 3: Gene	eral Description of the Wa	<u>ste</u>			
	sed BioDiesel Filters				
Detailed Description	on of Process Generating V	Vaste: Filters were used	to filter the bio	odiesel fron	n tank #1 to tank #2.
Dhygiaal State.		l ст з Г	7 n		
Physical State:	Liquid _	Sludge	Powder		
	⊠ Solid □	Filter Cake	_ Combination	Ŋ	
Color: Yellowish	Odor	: Mild			
1010WISH	Odu	• 141111111			
Specific Gravity (w	rater=1): <u>N/A</u>	Density: N/A lbs/ga	1		
Does this material	contain any total phenolic	compounds? Yes	⊠ No		
Does this material	contain any para substitut	ed phanolic compound	ls? 🗆 Vas - 🖔	√ No	
Does (IIIs material)	COLLAIN ANY PALA SUUSIILUI	eu phenone compound	is. Lites 🗵	7140	
Layers:	Single-phase	Multi-phase			
•					
Container Type:	□ Drum □	Tote □	Truck	\boxtimes	Other (explain)
Container Size:		1000	Truck		25 Yd. Box
Container Size.	-				23 Td. BOX
Frequency:	Weekly	Monthly 🛛	Quarterly		Yearly
Number of Units (containers): 3	Other:			
Texas State Waste					
Proper U.S. DOT S	<u> </u>	/	LCRA INT	m Do T	Para de la Mala al Mila Giller
	UN/NA:	IO ON I			Regulated Material (Oily Filter)
Class: NA	OWITA.	NA	10	A	RQ: NA

Approval Number:

	рН	Reactive Sulfides		Cyanides	Solids	
<u>N/A</u>	<u>N/A</u>	N/Amg/I	N/Amg/I		100%	
Oil&Grease	TOC	Zinc	Copper	Nickel		
N/Amg/l	N/Amg/l	N/Amg/I	N/Amg/I	N/Amg/	1	
SECTION 4: Phy	ysical and Chemica	al Data				
	COMPON	ENTS TABLE		Concentration	Uı	nits
TI	ne waste consists of	f the following materials		Ranges are accept		r %
Filters					10	0%
						
		· · · · · · · · · · · · · · · · · · ·				
						
			L_			
SECTION 5: Sal	ety Related Data					
if the handling of	thic wasta require	es the use of special protectiv	e equipment pla	ace evalain		
PPE	tills waste require	s the use of special protectiv	e equipment, pie	азс Схрівін.		
1 1 1						
SECTION 6: Att	ached Supporting	Documents				•
	-	or analysis attached to this f	form as part of t	he waste approva	l package.	
MS D.	7					
SECTION 7: Inc						
Please l <u>i</u> st all inco						
see 1	ompatibilities (if an NSDS	чу):				
-	NSDS	ry): Ige Documentation				
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Laboratory analy generator knowled and continuous for the continuous formation continuous formation of the companies of the companies formation of the compa	nerator's Knowled sis of the hazardor dege: \[\frac{X}{X} \] tiles: \[\frac{X}{X} \] nerator's Certificate contained herein is been is complete and position properties detailed of all material ture:	ntion Passed on generator knowled accurate to the best of my exist and that all known or such the decument Auth. Backer A	dge and/or [] an knowledge and a ispected hazards	nalytical data. I he ability to determin have been disclos Date: 7/14/a	reby certify of that no deed. I certify	that the above ar eliberate or willf
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<u>SE</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	this material a wastewater or wastewater sludge? YES NO
If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	ils Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	mics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
Ħ	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

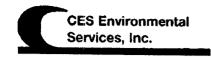
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	☐ Metals Subcategory

SECTION 11: Additional Instructions

Oils Subcategory

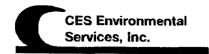
Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$ 95/yard
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5,	Treatment and Handling Protocol:
	Take to Oily Filters Disposal facility
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

General Product Name: Biodiesel

Product Description: Blend

Synonyms: Methyl Soyate, Rapeseed Methyl Ester, Methyl Tallowate, Fatty Acid Methyl

Ester, Vegetable Oil Methyl Ester, Methyl Ester, Palm Kernel Oil Methyl Ester

CAS Numbers: Methyl Soyate: 67784-80-9

Rapeseed Methyl Ester: 73891-99-3

Methyl Tallowate: 61788-71-2

Vegetable Fatty Acid Methyl Ester: 68990-52-3

C14-18 & C16-18

Unsaturated Alkylcarboxylic Acid Methyl Ester: 67762-26-9

Palm Kernel Fatty Acid Methyl Ester: 91051-32-0 Fatty acids, C8-C18, methyl ester: 68937-84-8

Methyl Laurate: 111-82-0 Methyl Myristate: 124-10-7 Methyl Oleate: 112-62-9 Methyl Palmitate: 112-39-0 Methyl Caprate: 110-42-9 Methyl Stearate: 112-61-8 Methyl Caprylate: 111-11-5

Company Information

Organic Fuels, LTD One Riverway, Suite 2053 Houston, TX 77056

Product Information: (713) 979-2600 Fax: (713) 456-2151

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product may contain 0%-100% of the Product identified above. This product contains no hazardous materials.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

EYE CONTACT:

May cause eye irritation.

INHALATION:

Negligible at ambient temperature. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea.

SKIN CONTACT:

Prolonged or repeated contact is not likely to cause significant skin irritation. Thermal burns are possible on contact with material at elevated temperatures.

INGESTION:



No hazards are anticipated from ingestion incidental to industrial exposure.

4. FIRST AID MEASURES

EYES:

After initial flush, remove any contact lenses, and continue to flush eyes with water for at least 15 to 20 minutes. Seek medical attention if irritation develops or persists.

INHALATION:

Remove to fresh air. Seek medical attention if symptoms persist.

SKIN:

Wash affected areas of the body with soap and water.

INGESTION:

Give one or two glasses of water to drink. If gastro-intestinal symptoms develop, consult medical personnel. (Note: Never give anything by mouth to an unconscious person.)

5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point (Method Used): 130.0° C min (ASTM 93)

Auto-ignition Temperature: N/A

Flammable Limits in Air:

LEL: N/A UEL: N/A

Extinguishing Media:

Dry chemical, foam, halon, carbon dioxide, water spray (fog). Note: Water stream may

splash the burning liquid and spread fire.

Special Fire Fighting Procedures:

Use water spray to cool drums exposed to fire.

Unusual Fire and explosion Hazards:

Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in well ventilated area.

Fire Fighting Instructions:

Evacuate non-emergency personnel to a safe area. Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

6. ACCIDENTAL RELEASE MEASURES SPILL CLEAN-UP PROCEDURES

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "Oil Dry", sand or dirt.

Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

7. HANDLING AND STORAGE

Store in closed containers at temperatures between 50°F and 120°F, and keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flame. Store out of the sun.



Do not puncture, drag, or slide container. Drum is not a pressure vessel; never use pressure to empty.

Only use hoses and gaskets that are made of fluorinated polyethylene, fluorinated polypropylene, Teflon, Teflon lined, or Viton[®]. Use of nitrile, natural rubber, or Buna-N type rubbers, which are commonly found in fuel systems, is only allowed for blends of petroleum diesel with concentrations of biodiesel below 20%.

For blends higher than 20% biodiesel only steel, mild steel, stainless steel, aluminum, fluorinated polyethylene fluorinated polypropylene and fiberglass vessels are recommended. Use of tanks or lines made of brass, bronze, and copper or lead, tin, and zinc (i.e. galvanized) may cause sediment formation and filter clogging and are not recommended.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

RESPIRATORY PROTECTION:

If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator. PROTECTIVE CLOTHING:

Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact. OTHER PROTECTIVE MEASURES:

Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Boiling Point:

Vapor Pressure:

Pale Yellow Liquid with slight solvent smell

Odor:

Mild >200°C <2 mm Hg: >1 (Air=1)

Insoluble

Vapor Density: Solubility in Water: Specific Gravity:

0.88 (Water=1)

% Volatiles:

<2% by Volume

Evaporation Rate:

<1 (Butyl Acetate=1)

10. STABILITY AND REACTIVITY

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Avoid contact with strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCT:

Combustion produces carbon monoxide and carbon dioxide along with



thick smoke.

11. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Waste may be disposed of by a licensed waste disposal company. Contaminated absorbent material may be disposed of in an approved landfill. Follow local, state and federal disposal regulations.

12. TRANSPORT INFORMATION

UN HAZARD CLASS: N/A

This product is not regulated by the U.S. department of Transportation (DOT)

NMFC (National Motor Freight Classification):

PROPER SHIPPING NAME: Fatty acid ester

IDENTIFICATION NUMBER: 144920 SHIPPING CLASSIFICATION: 65

13. REGULATORY INFORMATION:

OSHA STATUS:

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Sections 2 and 3. TSCA STATUS:

This product is listed on TSCA.

CERCLA (Comprehensive Response Compensation and Liability Act):

NOT reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Not Extremely Hazardous Substances under Section 312

Non-hazardous under Section 311/312

Not a Toxic Chemical under Section 313

RCRA STATUS:

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste, (40 CFR 261.20-24)

CALIFORNIA PROPOSITION 65:

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains no chemicals known to the state of California to cause cancer.

14. OTHER INFORMATION:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and



reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use.

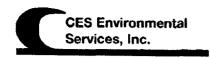
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	Metals Subcategory

SECTION 11: Additional Instructions

Oils Subcategory

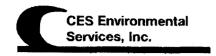
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4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
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	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

General Product Name: Biodiesel

Product Description: Blend

Synonyms: Methyl Soyate, Rapeseed Methyl Ester, Methyl Tallowate, Fatty Acid Methyl

Ester, Vegetable Oil Methyl Ester, Methyl Ester, Palm Kernel Oil Methyl Ester

CAS Numbers: Me

Methyl Soyate: 67784-80-9

Rapeseed Methyl Ester: 73891-99-3

Methyl Tallowate: 61788-71-2

Vegetable Fatty Acid Methyl Ester: 68990-52-3

C14-18 & C16-18

Unsaturated Alkylcarboxylic Acid Methyl Ester: 67762-26-9

Palm Kernel Fatty Acid Methyl Ester: 91051-32-0 Fatty acids, C8-C18, methyl ester: 68937-84-8

Methyl Laurate: 111-82-0 Methyl Myristate: 124-10-7 Methyl Oleate: 112-62-9 Methyl Palmitate: 112-39-0 Methyl Caprate: 110-42-9 Methyl Stearate: 112-61-8 Methyl Caprylate: 111-11-5

Company Information

Organic Fuels, LTD One Riverway, Suite 2053 Houston, TX 77056

USA

Product Information: (713) 979-2600 Fax: (713) 456-2151

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product may contain 0%-100% of the Product identified above. This product contains no hazardous materials.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

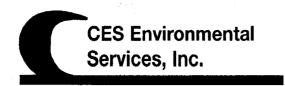
EYE CONTACT:

May cause eye irritation.

INHALATION:

Negligible at ambient temperature. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea. SKIN CONTACT:

Prolonged or repeated contact is not likely to cause significant skin irritation. Thermal burns are possible on contact with material at elevated temperatures. INGESTION:



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/15/2009

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3427

Expiration Date 7/15/2011

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

Waste Information

Name of Waste: Non-hazardous filters (MeAc Feed Filters, East Filter Press Filt

TCEQ Waste Code #: 00053101

Container Type:

Detailed Description of Process Generating Waste:

Non-Haz filters, pads, and absorbent from EVOH manufacturing facility

Color: varies

Odor: alcohol

pH: 6-8

Physical State:

Incompatibilities: Strong oxidizers **Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

V

CES Environmental Services, Inc.

U.S. EPA ID N	Phone (713)	ggs Road, H 676-1460 008950461	ouston, TX Fax: (713) ISWR N	77021 676-1676 lumber: 309		_	242 Pho	ovironment 20 S. Gulfwa ne (713) 67 umber: TXR	ny Dr., F 6-1460	ort Arthur Fax: (713	TX 77641	0	3287
SECTION 1: Company:	Noltex L.L.	c	<u> </u>										
Address:	12220 Str	ing Road											
City:	LaPorte			St	-	TX		Zip:					77571
Contact:	L. Kristine					Title:		FHS&S M	nager	· · · · · · · · · · · · · · · · · · ·			
Phone Num		281-84				Fax Numi	ber:	281-842-5	007_				
24/hr Phon		281-84											
US EPA ID N	• •	TXR000	011106										
State ID No	:				84348	SIC Code:	:	2821, 286	9				
SECTION 2: Company: Address:	Billing Info	rmation -	<u> </u>	ame as Ab	OVE						·····		o
City:				St	ate:			Zlp:					
Contact:			 _			Title:		,					
Phone Num	ber:					Fax Num	ber:						
SECTION 3:	General De	scription	of the Was	ite									
Name of W	escription o	Process (enerating				ilter	Press Filte	rs, Me	OH Feed F	ilters)		
Non-Haz File		ind absorb	ent from G	VOI-I manu	facturing	facility		 _		_			
Physical Sta	ite: 📙	Liquid Solid			udge Iter Cake			Powder Combinat	ion				
Color:	varies					Odor:		alcohol					
Specific Gra	vity (water	=1):	NA					Density:	NA	lbs	/gal		
Does this m	aterial con	tain any to	otal pheno	lic compou	nds?		Yes	[5]	No				
Does this m	aterial con	tain any pa	ara substit	uted pheno	olic comp	Szbnua			Yes	☑ No			
is the Wast Answer "Ye										L following		J	Nο
2812			2816	2819	2821		2822	-		2824	2833		2834
2835	283	IG.	2841	2842	2843	:	2844	285		2861	2865		2869
2873	287	4	2876	2879	2891	:	7897	2893		289G	2899		2911
3312	49!	53	4959	9511									
Layers:	☑ si	ngle-phase	e 🗆] Multi-pl	hase								
Container T	ype: 🗹	Drum	☐ Tot	e 🗌 Tr	uck 🗌	Other (ex	plain	1)					
Frequency: Quantity:	☐ Week	ly 🗹 Ma	nthly 🗌	Yearly [One-Tir	me							

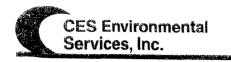
To:7137488664

		us Waste" per plete, sign and			Yes dous Constitue		No tached hereto		
If "Yes", Is Characterist	it: Li	0001 (Ignitab letais:	□ D004	D002 (Corr ∐ D005		D003 (Rea	nctive)	© D009	
Characterist	ic for Toxic O	rganics: D012	□ D010 thru D043 (p	□D011 lease list all	that apply)				
		d waste or mi		7	☐ Yes	Z] No		
40 CFR 261.3	5(1) to (a)€	luct or spill cle	☐ Y		"U" or "P" wa No	ste code u	nder		
	Waste Code		N B 60 4 ()	00053101			-		
Proper US D Class:	OT Shipping NA	Name: UN/NA:	NON RCRA/N	PG:	gulated Mater	iai (used fil RQ:	NA NA		
				-					
	Point	p			ve Sulfides	1	e Cyanides	Soli	
	deg F	G-		< 100	<u>mg/l</u>	<20	l\gm	100 Nici	% (a)
NA	Grease mg/l	NA TO	mg/l	NA	Zinc mg/l	NA CC	mg/l	NA NA	mg/l
SECTION 4:		Chemical Data					^ 		
Th		MPONENTS TA				CONICEN	ずひとすべいい		LIANTO
		ists of the follo		uls			TRATOIN		UNITS or %
			wing materia	nls		Ranges are	TRATOIN acceptable 100		UNITS or %
	Filters, Pad	ists of the follo s. Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are	acceptable		or %
	Filters, Pad	s, Absorbent,	owing materia and debris	als		Ranges are 90- 0-	acceptable 100		or % %
	Filters, Pad	s, Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are 90- 0-	acceptable 100 10		or % % %
	Filters, Pad	s, Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are 90- 0-	acceptable 100 10		or % % %
	Filters, Pad	s, Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are 90- 0-	acceptable 100 10		or % % %
	Filters, Pad	s, Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are 90- 0-	acceptable 100 10		or % % %
	Filters, Pad	s, Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are 90- 0-	acceptable 100 10		or % % %
	Filters, Pad	s, Absorbent, yl Acetate Res	owing materia and debris	als		Ranges are 90- 0-	acceptable 100 10		or % % %

SECTION 5: Safety Re	lated Data	
If the handling of this	waste requires the use of special protective equ	uipment, please explain.
standard PPE		
SECTION 6: Attached	Supporting Documents	
	tes, data and/or analysis attached to this form	as part of the waste
approval package.	Materials sampled on 6/1/2009, 6/11/2009	
	9, 7/8/2009, and 7/10/2009.	
	5,1,4,2005, a.m. 1,20,2005.	
SECTION 7: Incompa	tibilities	
Please list ALL incomp		
strong oxidizers	and more the diffy.	
marong oxion era		
		· · · · · · · · · · · · · · · · · · ·
SECTION 8: Generate	or's Knowledge Documentation	
	The hazardous waste characteristics, listed believed	OW WAS NOT DEDECIDATED
	ving generator knowledge:	OW, TANS ITO I FERI ORIVIED
based upon the follow	ang generator knowledge.	
TCLP Metais:	can get ahad analysical repost	
TCLP Volatiles:	see attached analytical report	
TCLP Semi-Volatiles:	see attached analytical report	
Reactivity:	see attached analytical report	
Corrosivity:	see attached analytical report	
lgnitability:	see attached analytical report	
Facilities)		Pre-Treatment Requirements for Centralized Waste Treatm
	terial a wastewater or wastewater sludge? s', complete this section.	L.I YES ☑ NO
PLEASE C	HECK THE APPROPRIATE BOX. IF NO APPROPRIATE	E CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory: S	uhpart A	
	ctroplating baths and/or sludges	
	shing rinse water and sludges	
Chromate	wastes	
	on control blow down water and sludges	
	odizing solutions	
☐ Incinerati	on wastewaters	
	containing wastes greater than 136 mg/l	
	ds and bases with or without metals	
☐ Cleaning,	rinsing, and surface preparation solutions from elec-	ectroplating or phosphating operations
☐ Vibratory	deburring wastewater	
☐ ∧lkaline a	nd acid solutions used to clean metal parts or equip	pment
Oile Subset	B	
Oils Subcategory: Subj	san B	
	emulsions or mixtures	
Lubricant		
Coolants		
🔲 Contamin	ated groundwater clean-up from petroleum source	es
	oleum products	
Oil spill cl		
Bilge wat		
Rinse/wa	sh waters from petroleum sources	

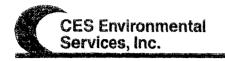
2818425097

	Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
닏	Tank clean-out from petroleum or oily sources
<u> -</u>	Non-contact used glycols
님	Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
L	wastewater from on bearing paint wasnes
Organics Sub	category: Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
H	Still bottoms Demodular visits about
H	Dyproduct waste glycol Wastewater from paint washes
H	Wastewater from adhesives and/or epoxies formulation
Ħ	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
(1)	state and a state of the state
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
(/	If the waste contains oil and grease less than 100 mg/L, and has any of the pollulants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/l
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Oils Subcategory Organics Subcategory
SECTION 10	Additional instructions
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This co acceptance. The generator will be responsible for the cost of the analysis.
The informal hereby cer my knowled	: Generator's Certification Ition contained herein is based on
	sted are representative of all materials described by this document.
Authorized	Signature:
Printed Nam	ne/THE EXECUTIVE VICE President Randall Bolding
000 1105 611	AVANO MOTAMBRE IN THE COACE
ICES USE ON	LY (DO NOT WRITE IN THIS SPACE)
Compliance Date: Approval No	7-15-09 Approved Rejected



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Dase Fricing (including freight):
\$ 65/drum + trans+fsc
· ·
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: Class I Solids
C. Tropped Mastewater Discharge Subcategory
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Produc	t Recovered/Recyc	led (if applicable):		
8. Management fo	r Product Recovere	d/Recycled (if app	olicable)	



ANALYTICAL REPORT

Job Number: 600-12026-1

Job Description: Feed Filters TCLP, RCI, BTU 6/25/09

For:
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil a. Rodrigue

Approved for releas Neil A Rodrigue Project Manager II 7/8/2009 6:56 PM

Neil A Rodrigue
Project Manager II
neil.rodrigue@testamericainc.com
07/08/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040 Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-12026-1	# 326 MeOH Feed Filters	Solid	06/25/2009 0930	06/25/2009 1234
600-12026-2	# 323 MeAc Feed Filters	Solid	06/25/2009 0930	06/25/2009 1234
600-12026-3	# 327 MeOH Feed Filter	Solid	06/25/2009 0930	06/25/2009 1234

Job Number: 600-12026-1

Client Sample ID:

326 MeOH Feed Filters

Lab Sample ID:

600-12026-1

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234

Client Matrix:

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution		
Method: TCLP-8260B			Date An	alyzed:	alyzed: 06/30/2009 1530			
Prep Method: 5030B			Date Pr	epared:	06/30/2009 1530			
Benzene	22	U	ug/L	22	100	20		
Carbon tetrachloride	22	U	ug/L	22	100	20		
Chlorobenzene	18	U	ug/L	18	100	20		
Chloroform	18	U	ug/L	18	100	20		
1,2-Dichloroethane	22	U	ug/L	22	100	20		
1,1-Dichloroethene	23	υ	ug/L	23	100	20		
2-Butanone (MEK)	32	U	ug/L	32	200	20		
Tetrachloroethene	46	U	ug/L	46	100	20		
Trichloroethene	26	U	ug/L	26	100	20		
Vinyl chloride	32	U	ug/L	32	100	20		
1,4-Dichlorobenzene	22	U	ug/L	22	100	20		
Surrogate					Acceptance Limits			
4-Bromofluorobenzene	100		%		70 - 130			
Dibromofluoromethane	91		%		70 - 130			
Toluene-d8 (Surr)	104		%		70 - 130			
1,2-Dichloroethane-d4 (Surr)	89		%		70 - 130			
Method: TCLP-8270C			Date An	ary zou,	07/01/2009 1620			
Prep Method: 3510C			Date Pro	epared:	06/30/2009 1202			
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0		
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0		
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0		
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0		
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0		
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0		
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0		
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0		
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0		
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0		
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0		
Pyridine	1.0	U	ug/L	1.0	10	1.0		
Surrogate					Acceptance Limits			
Phenol-d6	43		%		10 - 94			
Nitrobenzene-d5	79		%		35 - 114			
2-Fluorophenol	56		%		21 - 100			
2-Fluorobiphenyl	79		%		43 - 116			
2,4,6-Tribromophenol	101		%		10 - 123			
Terphenyl-d14	79		%		33 - 141			

Job Number: 600-12026-1

Client Sample ID:

326 MeOH Feed Filters

Lab Sample ID:

600-12026-1

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234 Client Matrix:

Analyte	Result/Quali	fier	Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date An	alyzed:	07/02/2009 1518	
Prep Method: 3010A			Date Pre	epared:	07/02/2009 0906	
Pb	0.0029	U	mg/L	0.002	9 0.010	1.0
Cr	0.0016	U	mg/L	0.001	6 0.010	1.0
Cd	0.00073	U	mg/L	0.000	73 0.0050	1.0
Ва	0.099	В	mg/L	0.001	6 0.020	1.0
As	0.010	В	mg/L	0.003	3 0.010	1.0
Ag	0.0012	U	mg/L	0.001	2 0.010	1.0
Se	0.016	JВ	mg/L	0.004	2 0.040	1.0
Method: TCLP-7470A			Date An	alyzed:	07/01/2009 1322	
Prep Method: 7470A			Date Pre	epared:	07/01/2009 0848	
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date An	alyzed:	06/30/2009 1348	
Prep Method: 7.3.4			Date Pre	epared:	06/29/2009 1126	
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0
Method: 9012			Date An	alvzed:	06/30/2009 1424	
Prep Method: 7.3.3			Date Pre	•	06/29/2009 1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Job Number: 600-12026-1

Client Sample ID:

326 MeOH Feed Filters

Lab Sample ID:

600-12026-1

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234

Client Matrix:

Analyte		Result/Qua	lifier	Unit	RL	RL	Dilution
Method: 9045C				Date Analy	yzed: 06/29	/2009 0830	
pН		7.72	HF	SU	0.0100	0.0100	1.0
Method:	D240-87			Date Analy	yzed: 07/07	/2009 1645	
BTU		2800		BTU/lb	500	500	1.0
Method:	D92			Date Analy	yzed: 07/01	/2009 1300	
Flashpoint		>212		Degrees F	1.0	1.0	1.0

Job Number: 600-12026-1

Client Sample ID:

323 MeAc Feed Filters

Lab Sample ID:

600-12026-2

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234

Client Matrix:

Analyte	Result/Qua	alifier	Unit	MDL	RL	Dilutio
Method: TCLP-8260B	Date Analyzed: 06/30/3				06/30/2009 1556	
Prep Method: 5030B			Date Pr	epared:	06/30/2009 1556	
Benzene	22	U	ug/L	. 22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	υ	ug/L	22	100	20
Surrogate				Acceptance Limits		
4-Bromofluorobenzene	107		%		70 - 130	on the company on the same party of probability
Dibromofluoromethane	90		%		70 - 130	
Foluene-d8 (Surr)	103		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	87		%		70 - 130	
Method: TCLP-8270C			Date An		07/01/2009 1653	
Prep Method: 3510C			Date Pro	epared:	06/30/2009 1202	
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
-lexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
-lexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate		PAGE CONTRACTOR OF THE PAGE OF			Acceptance Limits	
Phenol-d6	41		%		10 - 94	
Nitrobenzene-d5	83	Ε	%		35 - 114	
2-Fluorophenol	54		%		21 - 100	
2-Fluorobiphenyl	79		%		43 - 116	
2,4,6-Tribromophenol	90	E	%		10 - 123	
Terphenyl-d14	85	Ε	%		33 - 141	

Job Number: 600-12026-1

Client Sample ID:

323 MeAc Feed Filters

Lab Sample ID:

600-12026-2

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234

Client Matrix: Solid

Analyte	Result/Quali	fier	Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date An	alyzed: 0	7/02/2009 1522	
Prep Method: 3010A			Date Pre	epared: 0	7/02/2009 0906	
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0025	JΒ	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ва	0.21	В	mg/L	0.0016	0.020	1.0
As	0.0097	JΒ	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.015	JВ	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date An	alyzed: 07	7/01/2009 1332	
Prep Method: 7470A			Date Pre	epared: 07	7/01/2009 0848	
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date An	alyzed: 06	5/30/2009 1348	
Prep Method: 7.3.4			Date Pre	epared: 06	8/29/2009 1126	
Sulfide, Reactive	40	J	mg/Kg	14	50	1.0
Method: 9012			Date An	alyzed: 06	6/30/2009 1424	
Prep Method: 7.3.3			Date Pre	-	6/29/2009 1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Job Number: 600-12026-1

Client Sample ID:

#323 MeAc Feed Filters

Lab Sample ID:

600-12026-2

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234

Client Matrix:

Analyte		Result/Qual	ifier	Unit	RL	RL	Dilution
Method: 9045C				Date Analy	yzed: 06/29/	2009 0830	
рH		7.66	HF	SU	0.0100	0.0100	1.0
Method:	D240-87			Date Analy	yzed: 07/07/2	2009 1645	
BTU		21000		BTU/lb	500	500	1.0
Method:	D92			Date Analy	yzed: 07/01/2	2009 1300	
Flashpoint		>212		Degrees F	1.0	1.0	1.0

Job Number: 600-12026-1

Client Sample ID:

327 MeOH Feed Filter

Lab Sample ID:

600-12026-3

Date Received: 06/25/2009 1234

Date Sampled: 06/25/2009 0930

Client Matrix:

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilutio	
Method: TCLP-8260B			Date Ar	nalyzed: 06/30/2009 1622			
Prep Method: 5030B			Date Pr	epared:	06/30/2009 1622		
Benzene	22	U	ug/L	22	100	20	
Carbon tetrachloride	22	U	ug/L	22	100	20	
Chlorobenzene	18	U	ug/L	18	100	20	
Chloroform	18	U	ug/L	18	100	20	
1,2-Dichloroethane	22	U	ug/L	22	100	20	
1,1-Dichloroethene	23	U	ug/L	23	100	20	
2-Butanone (MEK)	32	U	ug/L	32	200	20	
Tetrachloroethene	46	U	ug/L	46	100	20	
Trichloroethene	26	U	ug/L	26	100	20	
Vinyl chloride	32	U	ug/L	32	100	20	
1,4-Dichlorobenzene	22	U	ug/L	22	100	20	
Surrogate				Acceptance Limits			
4-Bromofluorobenzene	101		%	programmer and a second second second	70 - 130	and the form of the contract of	
Dibromofluoromethane	87		%		70 - 130		
Toluene-d8 (Surr)	101		%		70 - 130		
1,2-Dichloroethane-d4 (Surr)	89		%		70 - 130		
Method: TCLP-8270C			Date An	alyzed:	07/01/2009 1727		
Prep Method: 3510C			Date Pro	epared:	06/30/2009 1202		
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0	
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0	
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0	
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0	
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0	
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0	
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0	
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0	
Hexachloroethane	1.2	Ü	ug/L	1.2	10	1.0	
Nitrobenzene	1.2	Ū	ug/L	1.2	10	1.0	
Pentachlorophenol	0.89	Ü	ug/L	0.89	50	1.0	
Pyridine	1.0	Ü	ug/L	1.0	10	1.0	
Surrogate					Acceptance Limits		
Phenol-d6	45		%		10 - 94		
Nitrobenzene-d5	86	Ε	%		35 - 114		
2-Fluorophenol	60		%		21 - 100		
2-Fluorobiphenyl	81	E	%		43 - 116		
2,4,6-Tribromophenol	97	E	%		10 - 123		
Terphenyl-d14	85	Ē	%		33 - 141		

Job Number: 600-12026-1

Client Sample ID:

#327 MeOH Feed Filter

Lab Sample ID:

600-12026-3

Date Received: 06/25/2009 1234

Date Sampled: 06/25/2009 0930

Client Matrix:

Analyte	Result/Qualifier		Unit	MDI	. RL	Dilution
Method: TCLP-6010B			Date Analyzed: Date Prepared:		07/02/2009 1537	
Prep Method: 3010A					07/02/2009 0906	
Pb	0.0029	U	mg/L	0.00	29 0.010	1.0
Cr	0.0016	U	mg/L	0.00	16 0.010	1.0
Cd	0.00073	U	mg/L	0.00	0.0050	1.0
Ва	0.11	В	mg/L	0.00	16 0.020	1.0
As	0.011	В	mg/L	0.00	33 0.010	1.0
Ag	0.0012	U	mg/L	0.00	12 0.010	1.0
Se	0.017	JΒ	mg/L	0.00	42 0.040	1.0
Method: TCLP-7470A			Date Analyzed: 07/01/2009 1334			
Prep Method: 7470A			Date Prepared: 07/01/2009 0848			
Mercury	0.021	U	ug/L	0.02	1 0.20	1.0
Method: 7.4.4			Date An	alyzed:	06/30/2009 1348	
Prep Method: 7.3.4			Date Prepared: 06/29/2009 1126			
Sulfide, Reactive	30	J.	mg/Kg	14	50	1.0
Method: 9012			Date Analy		06/30/2009 1424	
Prep Method: 7.3.3			Date Prepared:		06/29/2009 1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass Noltex LLC 12220 Strang Road La Porte, TX 77571-9740 Job Number: 600-12026-1

Client Sample ID:

327 MeOH Feed Filter

Lab Sample ID:

600-12026-3

Date Sampled: 06/25/2009 0930

Date Received: 06/25/2009 1234

Client Matrix:

Solid

Analyte		Result/Qua	lifier	Unit	RL	RL	Dilution
Method:	9045C			Date Anal	yzed: 06/29/	2009 0830	
рН		6.98	HF	SU	0.0100	0.0100	1.0
Method:	D240-87			Date Anal	yzed: 07/07/	/2009 16 4 5	
BTU		3600		BTU/lb	500	500	1.0
Method:	D92			Date Anal	yzed: 07/01/	2009 1300	
Flashpoint		>212		Degrees F	1.0	1.0	1.0

METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity	TAL HOU	SW846 9045C	
Heat of Combustion	TAL HOU	ASTM D240-87	
Flashpoint	TAL HOU	ASTM D92	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zaifang	ZFL.
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Puranik, Surendra U	SUP
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

TestAmerica Houston

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17167

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 600-17167/2

Analysis Batch: 600-17167

Client Matrix:

Water

Instrument ID: VOA-V

Prep Batch: N/A

Lab File ID: H18104.D

Dilution:

1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 06/30/2009 1322

Final Weight/Volume: 5 mL

Date Prepared: 06/30/2009 1322

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec		Acceptance Limits	
4-Bromofluorobenzene	101		70 - 130	
Dibromofluoromethane	93		70 - 130	
Toluene-d8 (Surr)	104	70 - 130		
1,2-Dichloroethane-d4 (Surr)	90		70 - 130	

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17167

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 600-17167/3

Analysis Batch: 600-17167

Client Matrix:

Water

Instrument ID: VOA-V

Prep Batch: N/A

Lab File ID: H18105.D

Dilution:

1.0

Initial Weight/Volume: 5 mL

Units: ug/L

Date Prepared: 06/30/2009 1347

Date Analyzed: 06/30/2009 1347

Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec		Acceptance Limits	
4-Bromofluorobenzene	105		70 - 130	
Dibromofluoromethane	94		70 - 130	
Toluene de (Surr)	102		70 120	

Surrogate	% Rec	Acceptance Limi		
4-Bromofluorobenzene	105	70 - 130		
Dibromofluoromethane	94	70 - 130		
Toluene-d8 (Surr)	103	70 - 130		
1,2-Dichloroethane-d4 (Surr)	94	70 - 130		

Client: Noltex LLC Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17167

Method: 8260B Preparation: 5030B

Lab Sample ID: LCS 600-17167/1

Analysis Batch: 600-17167

Client Matrix:

Water

Prep Batch: N/A

Instrument ID: VOA-V

Lab File ID: H18102.D Initial Weight/Volume: 5 mL

Dilution:

1.0

Units: ug/L

Date Analyzed: 06/30/2009 1232

Date Prepared: 06/30/2009 1232

Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	46.7	93	69 - 124	**************************************
Carbon tetrachloride	50.0	45.3	91	57 - 134	
Chlorobenzene	50.0	46.8	94	70 - 129	
Chloroform	50.0	46.6	93	69 - 128	
1,2-Dichloroethane	50.0	43.8	88	65 - 134	
1,1-Dichloroethene	50.0	43.8	88	45 - 136	
2-Butanone (MEK)	100	103	103	53 - 140	
Tetrachloroethene	50.0	46.9	94	59 - 134	
Trichloroethene	50.0	47.2	94	68 - 130	
Vinyl chloride	50.0	43.7	87	38 - 153	
1,4-Dichlorobenzene	50.0	46.2	92	72 - 131	
Surrogate	% R	Rec	Acc	ceptance Limits	
4-Bromofluorobenzene	94	ļ	70 - 130		
Dibromofluoromethane	10	00	70 - 130		
Toluene-d8 (Surr)	94	ļ	70 - 130		
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17108

Method: 8270C Preparation: 3510C

Lab Sample ID: MB 600-17108/1-A

Analysis Batch: 600-17114

Instrument ID: MSD1526

Client Matrix:

Water

Lab File ID: A0630915.D

Prep Batch: 600-17108

Dilution:

Initial Weight/Volume: 1000 mL

1.0

Units: ug/L

Final Weight/Volume: 1.00 mL

Date Analyzed: 06/30/2009 1814

Date Prepared: 06/30/2009 1202

Injection Volume:

1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10
Surrogate	% Rec		Acceptance Limits	
Phenoi-d6	49		10 - 94	
Nitrobenzene-d5	89		35 - 114	
2-Fluorophenol	70		21 - 100	
2-Fluorobiphenyl	92		43 - 116	
2,4,6-Tribromophenol	81		10 - 123	
Terphenyl-d14	104		33 - 141	

Client: Noltex LLC Job Number: 600-12026-1

TCLP SPLPE Leachate Blank - Batch: 600-17108

Method: 8270C Preparation: 3510C

TCLP

Lab Sample ID: LB 600-17076/1-B

Analysis Batch: 600-17271

Instrument ID: MSD2348

Client Matrix:

Solid

Prep Batch: 600-17108

Lab File ID:

Z0701904.D

Dilution:

1.0

Initial Weight/Volume: 1000 mL

Date Analyzed: 07/01/2009 1512

Units: ug/L

Final Weight/Volume: 1.00 mL

Date Prepared: 06/30/2009 1202

Injection Volume:

1.0 uL

Date Leached:

06/29/2009 1400

Leachate Batch: 600-17076

Analyte	Result	Qual	MDL	RL	
1,4-Dichlorobenzene	1.3		1.3	10	Successive Processive Processive Contraction Contracti
2,4-Dinitrotoluene	0.95	U	0.95	10	
2,4,5-Trichlorophenol	1.3	U	1.3	10	
2,4,6-Trichlorophenol	0.92	U	0.92	10	
2-Methylphenol	1.0	U	1.0	10	
3 & 4 Methylphenol	1.9	U	1.9	20	
Hexachlorobenzene	0.90	U	0.90	10	
Hexachlorobutadiene	1.1	U	1.1	10	
Hexachloroethane	1.2	U	1.2	10	
Nitrobenzene	1.2	U	1.2	10	
Pentachlorophenol	0.89	U	0.89	50	
Pyridine	1.0	U	1.0	10	

Surrogate	% Rec	Acceptance Limits
Phenol-d6	51	10 - 94
Nitrobenzene-d5	92	35 - 114
2-Fluorophenol	67	21 - 100
2-Fluorobiphenyi	86	43 - 116
2,4,6-Tribromophenol	91	10 - 123
Terphenyl-d14	90	33 - 141

Client: Noltex LLC

Job Number: 600-12026-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 600-17108

Method: 8270C Preparation: 3510C

LCS Lab Sample ID: LCS 600-17108/2-A

Analysis Batch: 600-17114

MSD1526

Client Matrix:

Water

Instrument ID:

A0630916.D

Dilution:

Prep Batch: 600-17108

Lab File ID:

1.0

Units: ug/L

Initial Weight/Volume: Final Weight/Volume: 1000 mL 1.00 mL

Date Analyzed: Date Prepared: 06/30/2009 1848

06/30/2009 1202

Injection Volume:

1.0 uL

LCSD Lab Sample ID: LCSD 600-17108/3-A

Analysis Batch: 600-17114

Instrument ID:

MSD1526

Client Matrix:

Water

Prep Batch: 600-17108

Lab File ID:

A0630917.D

Dilution:

1.0

Units: ug/L

Initial Weight/Volume: Final Weight/Volume:

1000 mL 1.00 mL

Date Analyzed: Date Prepared:

06/30/2009 1922 06/30/2009 1202

Injection Volume:

1.0 uL

		% Rec.
alvte	LCS	LC

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,4-Dichlorobenzene	77	82	45 - 105	6	20	00000000000000000000000000000000000000	entition werd his house process and a region of a region of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section o
2,4-Dinitrotoluene	86	96	61 - 162	11	20		
2,4,5-Trichlorophenol	77	85	59 - 123	9	20		
2,4,6-Trichlorophenol	75	82	30 - 143	9	20		
2-Methylphenol	74	75	34 - 109	2	20		
3 & 4 Methylphenol	80	77	27 - 113	4	20		
Hexachlorobenzene	88	87	62 - 121	2	20		
Hexachlorobutadiene	81	90	32 - 143	11	20		
Hexachloroethane	77	76	42 - 110	1	20		
Nitrobenzene	78	84	55 - 115	8	20		
Pentachlorophenol	64	76	44 - 142	17	20	J	J
Pyridine	39	44	10 - 109	12	40		
Surrogate	L	CS % Rec	LCSD % Rec Acceptance Limits				
Phenol-d6	5	1	46		1	n <u>-</u> 94	

Phenol-d6 10 - 94 Nitrobenzene-d5 80 84 35 - 114 2-Fluorophenol 66 61 21 - 100 2-Fluorobiphenyl 85 88 43 - 116 2,4,6-Tribromophenol 92 98 10 - 123 Terphenyl-d14 96 96 33 - 141

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17233

Method: 6010B Preparation: 3010A

Lab Sample ID: MB 600-17233/1-A

Client Matrix: Dilution: 1.0

Water

07/02/2009 1507 Date Analyzed: 07/02/2009 0906 Date Prepared:

Analysis Batch: 600-17258 Prep Batch: 600-17233

Units: mg/L

Instrument ID: TJA ICP 61E Lab File ID: T070209

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
2004 1986 в 12 монтрология от применения производительной простительной производ по применения производ по применения производу по применения производ по применения производ по применения производ по применения применен	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ва	0.0016	U	0.0016	0.020
As	0.0033	U	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-17233

Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: LB 600-17076/1-D Client Matrix:

Dilution:

Se

Solid

1.0

07/02/2009 1515 Date Analyzed: Date Prepared: 07/02/2009 0906

Date Leached: 06/29/2009 1400 Analysis Batch: 600-17258 Prep Batch: 600-17233

Leachate Batch: 600-17076

Units: mg/L

Instrument ID: TJA ICP 61E Lab File ID: T070209

Initial Weight/Volume: 50 mL

Final Weight/Volume:

0.0042

50 mL

0.040

Analyte Result Qual MDL RL Pb 0.0029 U 0.0029 0.010 Cr 0.0016 0.0016 0.010 Cd 0.00073 U 0.00073 0.0050 Ва 0.078 0.0016 0.020 As 0.0094 0.0033 0.010 Ag 0.0012 U 0.0012 0.010

0.015

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC

Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17233

Method: 6010B Preparation: 3010A

Lab Sample ID: LCS 600-17233/2-A

Analysis Batch: 600-17258

Client Matrix:

Water 1.0

Prep Batch: 600-17233

Lab File ID:

Instrument ID: TJA ICP 61E T070209

Dilution:

07/02/2009 1511

Units: mg/L

Initial Weight/Volume:

50 mL

Date Analyzed: Date Prepared:

07/02/2009 0906

Final Weight/Volume:

50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pb	1.00	1.03	103	80 - 120	- Seland-American washed-from particular conditions, transportunation on a particular ex-
Cr	1.00	1.00	100	80 - 120	
Cd	0.500	0.521	104	80 - 120	
Ва	1.00	1.06	106	80 - 120	
As	1.00	1.04	104	80 - 120	
Ag	0.500	0.508	102	80 - 120	
Se	1.00	1.01	101	80 - 120	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 600-17233

Method: 6010B

Preparation: 3010A

TCLP

MS Lab Sample ID:

Client Matrix:

600-12026-2 Solid

Analysis Batch: 600-17258

Instrument ID:

TJA ICP 61E

Dilution:

Prep Batch: 600-17233

Lab File ID:

T070209

1.0

Date Analyzed:

07/02/2009 1529

Initial Weight/Volume: Final Weight/Volume:

50 mL 50 mL

Date Prepared: Date Leached:

07/02/2009 0906

06/29/2009 1400

MSD Lab Sample ID:

600-12026-2

Leachate Batch: 600-17076

Instrument ID: TJA ICP 61E

Client Matrix:

Solid

Analysis Batch: 600-17258

T070209 Lab File ID:

Dilution:

1.0

Prep Batch: 600-17233

50 mL

Date Analyzed:

07/02/2009 1533

Initial Weight/Volume: Final Weight/Volume: 50 mL

Date Prepared: Date Leached:

07/02/2009 0906 06/29/2009 1400

Leachate Batch: 600-17076

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Pb	103	104	75 - 125	1	20	AMOUNTAIN TO A STATE OF THE STA	THE SAME OF THE PROPERTY OF TH
Cr	97	98	75 - 125	1	20		
Cd	104	106	75 - 125	2	20		
Ва	103	102	75 - 125	1	20		
As	112	112	75 - 125	0	20		
Ag	108	108	75 - 125	0	20		
Se	116	115	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC Job Number: 600-12026-1

Duplicate - Batch: 600-17233

Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: 600-12026-2 Solid

Analysis Batch: 600-17258 Prep Batch: 600-17233

Instrument ID: TJA ICP 61E

Client Matrix: Dilution:

T070209 Lab File ID:

1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 07/02/2009 1526

Units: mg/L

Final Weight/Volume: 50 mL

Date Leached: 06/29/2009 1400

Date Prepared: 07/02/2009 0906

Leachate Batch: 600-17076

Analyte	·	Sample Result/Qual		RPD	Limit	Qual
Pb	0.0029	U	0.0029	NC	20	<u> </u>
Cr	0.0025	J	0.00254	2	20	J
Cd	0.00073	U	0.00073	NC	20	U
Ва	0.21		0.203	1	20	
As	0.0097	J	0.00923	5	20	J
Ag	0.0012	U	0.0012	NC	20	U
Se	0.015	J	0.0134	14	20	J

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17151

Method: 7470A Preparation: 7470A

Lab Sample ID: MB 600-17151/7-A

Client Matrix: Water

1.0

Dilution:

07/01/2009 1231 Date Analyzed: Date Prepared: 07/01/2009 0848 Analysis Batch: 600-17197 Prep Batch: 600-17151

Units: ug/L

Instrument ID: Perkin Elmer FIMS-100

Lab File ID: N/A

Initial Weight/Volume: 40 mL

40 mL

Final Weight/Volume:

Analyte MDL RL Result Qual Mercury 0.021 Ü 0.021 0.20

TCLP SPLPE Leachate Blank - Batch: 600-17151

Method: 7470A Preparation: 7470A

TCLP

Lab Sample ID: LB 600-17076/1-C

Client Matrix:

Solid

1.0 07/01/2009 1320

Date Analyzed: Date Prepared:

07/01/2009 0848

Date Leached:

06/29/2009 1400

Analysis Batch: 600-17197 Prep Batch: 600-17151

Units: ug/L

Instrument ID: Perkin Elmer FIMS-100

Lab File ID: N/A

Initial Weight/Volume: 40 mL

Final Weight/Volume: 40 mL

Leachate Batch: 600-17076

Analyte Mercury

Dilution:

Result 0.021

Qual Ū

MDL 0.021

RL

0.20

Lab Control Sample - Batch: 600-17151

Method: 7470A Preparation: 7470A

Lab Sample ID: LCS 600-17151/8-A

Client Matrix:

Water

Dilution:

Date Analyzed: Date Prepared:

07/01/2009 1233

Analysis Batch: 600-17197

Prep Batch: 600-17151

Units: ug/L

Instrument ID: Perkin Elmer FIMS-100

Lab File ID: N/A

Initial Weight/Volume:

50 mL

Final Weight/Volume: 50 mL

Analyte

07/01/2009 0848

Spike Amount

Result

% Rec.

Limit

Qual

Mercury

3.00

2.94

98

80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC

Job Number: 600-12026-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 600-17151

Method: 7470A Preparation: 7470A

TCLP

MS Lab Sample ID:

600-12026-1

Analysis Batch: 600-17197

Instrument ID:

Perkin Elmer FIMS-100

Client Matrix:

Solid

Dilution:

Prep Batch: 600-17151

N/A

1.0

Lab File ID:

40 mL

Date Analyzed: Date Prepared: 07/01/2009 1329

Initial Weight/Volume: Final Weight/Volume: 40 mL

Date Leached:

07/01/2009 0848 06/29/2009 1400

Leachate Batch: 600-17076

MSD Lab Sample ID:

600-12026-1

Instrument ID: Perkin Elmer FIMS-100

Client Matrix:

Solid

Analysis Batch: 600-17197

N/A

Prep Batch: 600-17151

Lab File ID:

Dilution:

1.0

Initial Weight/Volume:

40 mL 40 mL

Date Analyzed: Date Prepared: Date Leached:

07/01/2009 1330

07/01/2009 0848 06/29/2009 1400

Leachate Batch: 600-17076

MSD

Final Weight/Volume:

% Rec.

Analyte

MS

Limit

RPD **RPD** Limit

20

0

MSD Qual MS Qual

95 Mercury 95 75 - 125

Duplicate - Batch: 600-17151

Method: 7470A

Preparation: 7470A

TCLP

Lab Sample ID:

600-12026-1

Analysis Batch: 600-17197

Client Matrix:

Instrument ID: Perkin Elmer FIMS-100

Dilution:

Solid

Prep Batch: 600-17151

Lab File ID: N/A

Date Analyzed:

1.0 07/01/2009 1327 Initial Weight/Volume:

40 mL

Date Prepared:

07/01/2009 0848

Units: ug/L

Final Weight/Volume:

40 mL

Date Leached:

06/29/2009 1400

Leachate Batch: 600-17076

Sample Result/Qual

U

Limit

20

Analyte Mercury

0.021

0.021

Result

NC

RPD

Qual

U

Calculations are performed before rounding to avoid round-off errors in calculated results.

0 - 100

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17032 Method: 7.4.4 Preparation: 7.3.4

Lab Sample iD: MB 600-17032/1-A Analysis Batch: 600-17121 Instrument ID: No Equipment Assigned Client Matrix: Solid Prep Batch: 600-17032 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 10 mL 06/30/2009 1348 250 mL Date Analyzed: Final Weight/Volume:

Date Prepared: 06/29/2009 1126

RL. Analyte Result Qual MDL Sulfide, Reactive U 14 14 50

Lab Control Sample - Batch: 600-17032 Method: 7.4.4 Preparation: 7.3.4

1840

Lab Sample ID: LCS 600-17032/2-A Analysis Batch: 600-17121 Instrument ID: No Equipment Assigned Client Matrix: Solid Prep Batch: 600-17032 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 10 mL 06/30/2009 1348 250 mL Date Analyzed: Final Weight/Volume: 06/29/2009 1126

Analyte % Rec. Limit Qual Spike Amount Result

1120

61

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

Sulfide, Reactive

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17032

Method: 9012 Preparation: 7.3.3

Lab Sample ID: MB 600-17032/1-A

Client Matrix:

Solid

Dilution: Date Analyzed: 06/30/2009 1424

1.0

Date Prepared:

06/29/2009 1126

Analysis Batch: 600-17124

Units: ug/Kg

Prep Batch: 600-17032

Instrument ID: WC05 Lachat-1

Lab File ID: N/A

Initial Weight/Volume:

10 mL

Final Weight/Volume:

250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	18	**************************************	18	250

Lab Control Sample - Batch: 600-17032

Method: 9012 Preparation: 7.3.3

Lab Sample ID: LCS 600-17032/2-A

Client Matrix:

Solid

20

Dilution:

Date Prepared: 06/29/2009 1126

Date Analyzed: 06/30/2009 1424

Analysis Batch: 600-17124 Prep Batch: 600-17032

Units: ug/Kg

Instrument iD: WC05 Lachat-1

Lab File ID: N/A

Initial Weight/Volume: 10 mL

Final Weight/Volume:

250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	52700	5	0 - 100	ene California de Antonio de California de C

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17024

Method: 9045C Preparation: N/A

Lab Sample ID: LCS 600-17024/1 Client Matrix:

Solid

Dilution:

1.0

06/29/2009 0830

Date Prepared: N/A

Date Analyzed:

Analysis Batch: 600-17024

Prep Batch: N/A

Units: SU

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.010	100	99 - 101	tonocon V. Ironni (Marcinolas) (1 Perioda)

Duplicate - Batch: 600-17024

Method: 9045C Preparation: N/A

Lab Sample ID: 600-12026-3

Client Matrix:

Solid

Dilution:

1.0 Date Analyzed: 06/29/2009 0830

Date Prepared: N/A

Analysis Batch: 600-17024

Prep Batch: N/A

Units: SU

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume:

20 mL 20 mL

Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
$q_1 a_2 a_3 b_1 a_2 a_3 a_4 a_5 a_5 a_5 a_5 a_5 a_5 a_5 a_5 a_5 a_5$	er menerinamen e meninamen sider-enamen er menerinamen militari meditari menerinamen menten metebolitari da		MS were considerative constructive co		led Encounter community, exemple can a
рН	6.98	6.970	0	1	

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17482 Method: D240-87
Preparation: N/A

T Topulation 116

Lab Sample ID: MB 600-17482/10 Analysis Batch: 600-17482 Instrument ID: No Equipment Assigned

Date Prepared:

N/A

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: BTU/lb Initial Weight/Volume: 1.0263 g
Date Analyzed: 07/07/2009 1645 Final Weight/Volume: 1.0 mL

 Analyte
 Result
 Qual
 RL
 RL

 BTU
 500
 U
 500
 500

Lab Control Sample - Batch: 600-17482 Method: D240-87
Preparation: N/A

Preparation: N/A

Lab Sample ID: LCS 600-17482/1 Analysis Batch: 600-17482 Instrument ID: No Equipment Assigned

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: BTU/lb Initial Weight/Volume: 0.9875 g

Date Analyzed: 07/07/2009 1645 Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte Spike Amount Result % Rec. Limit Qual

BTU 11400 11200 98 90 - 110

Duplicate - Batch: 600-17482 Method: D240-87

Preparation: N/A

Lab Sample ID: 600-12026-1 Analysis Batch: 600-17482 Instrument ID: No Equipment Assigned

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: BTU/lb Initial Weight/Volume: 1.0361 g

Date Analyzed: 07/07/2009 1645 Final Weight/Volume: 1.0 mL
Date Prepared: N/A

Analyte Sample Result/Qual Result RPD Limit Qual
BTU 2800 3990 35 20 F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC Job Number: 600-12026-1

Method Blank - Batch: 600-17227

Method: D92 Preparation: N/A

Lab Sample ID: MB 600-17227/1

Client Matrix: Dilution:

Solid

Date Analyzed:

Date Prepared:

1.0

07/01/2009 1300

N/A

Analysis Batch: 600-17227

Prep Batch: N/A

Units: Degrees F

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume: 1.0 mL

Analyte

Result

Qual

RL

RL

Flashpoint

>186

1.0

1.0

Lab Control Sample - Batch: 600-17227

Method: D92 Preparation: N/A

Lab Sample ID: LCS 600-17227/2

Client Matrix:

1.0

Dilution: Date Analyzed: Date Prepared:

Solid

07/01/2009 1300

Analysis Batch: 600-17227

Prep Batch: N/A

Units: Degrees F

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume: 60 mL

Analyte

Spike Amount

Result

% Rec.

Limit

Qual

Flashpoint

81.0

82.0

101

96.91 - 103.09

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-12026-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	F	Duplicate RPD exceeds the control limit
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Job Narrative 600-J12026-1

GC/MS Semi VOA

Method 8270C: Samples were double spiked with surrogate resulting in high results that exceed ICAL. %R for these surrogate were still within control limits.

No other analytical or quality issues were noted.

General Chemistry

Method D240-87: This sample is a very light material (nylon cloth), due to this the full aliquot of sample could not be used and a smaller aliquot of sample was analyzed.

No other analytical or quality issues were noted.

EPAHO109000334



CHAIN OF CUSTODY RECORD

Page: 600-12026-A-1

TestAmerica Laboratories, Inc.

Customer	Information	;		Project Inf	formatio	n			An	aly:	sis/l	Vleti	ods	\$ 7.57.5	7.		٠.	11. 11		t Aper	7:			
PO:				Project Na	me:	Waste Disp			A	TCL	P-Vo	latile	s (82	60)			K							
WO:				TAL Project No:		6000046	3-		В	TCL	P-Se	mivo	latile	s (82	70)		L				,,,			
Company:	Noltex, LLC			Bill To:		Noltex, L	LC		С	TLC	P-M	etals	(601)/747	0)		M							
Report to:	Joy Snodgrass			Invoice AT	TN:	Joy Snoo			D	RCI							Ν							
Address:	12220 Strang I			Address:			rang Roa		ΙE	BΤί	Js						0							
	La Porte, TX 7	7571-9740				La Porte,	TX 7757	1-9740	F								Р							
									G								Q							
E-mail:		rass@noltex.com						noltex.com	Н								R					***************************************		
Phone:	281-842-5039			Phone:		281-842-			1								Oth	er:						i
Fax:	281-842-5097			Fax:		281-842-	5097		J															
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1 4	326 MOH	FEED Filter-S	NONE	6195109	9:30	Waste	3		X	Х	X	X	X						\perp		\perp			***
2 4	32-3 M/AC	Fera Filter	None	10/25/09	9:30	Wask			TX	X	Ϋ́	VI.	\overline{X}	T	T	Т			T		T	T		0
	327 MOH		none	6125/09							X			. T	Ť	Î	T		一	\top	十	T		33
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Sampler:				Shipment	Method:	TAL Pick	up	Required TAT: 24-h	48	-h	72-	1 5	Day	/S ^	10 C	ays	Otl	ner:_						,
1 Relinquish	ned by: YON (DONO)	Date: 0.65/09	2. Received by:	A	Date:	-/-	3. Relinqu			Dat		/		. Réc	eive	zбŷ:	100	<i>a</i> a	<u>ر</u> د	辽	Di	ate 12		29
מגונות	<u>YONWAWY</u>		Men Tr	<u> </u>	6/25	NAME OF TAXABLE PARTY.	T	omt_		44		<u>/&</u>				<u> </u>	<u>ب</u>							
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Comment	s/Notes:	1											!,, ,							,,,,,,,,,,,,				
TestAmerica	Laboratories	6310 Rothway Driv	ve. Suite 130		Houston.	TX 77040			Ph	one:	713.	390.4	444							Fax:	713.	690.5	646	

TAL Project Manager:

Neil Rodrigue

713-358-2006

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-12026-1

Login Number: 12026 Creator: Claunch, Todd F List Source: TestAmerica Houston

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	



ANALYTICAL REPORT

Job Number: 600-12080-1

Job Description: East Filter Press TCLP, RCI, BTU 6/26/09

For:
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil a. Rodrigue

Approved for release. Neil A Rodrigue Project Manager II 7/10/2009 2:26 PM

Neil A Rodrigue
Project Manager II
neil.rodrigue@testamericainc.com
07/10/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040 Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-12080-1	#325 East Filter Press	Solid	06/26/2009 1030	06/26/2009 1248

Analytical Data

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID:

#325 East Filter Press

Lab Sample ID:

600-12080-1

Client Matrix:

Solid

Date Sampled: 06/26/2009 1030

Date Received: 06/26/2009 1248

Method:

8260B

Analysis Batch: 600-17596

Instrument ID:

VOAMS05

Preparation:

5030B

Lab File ID:

H19008.D

Dilution: Date Analyzed: 20 07/09/2009 1504 Leachate Batch: 600-17517

Initial Weight/Volume:

5 mL

07/09/2009 1504

Final Weight/Volume:

5 mL

Date	Prepared:
Date	Leached:

07/08/2009 0800

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL	
Benzene	MANICONALLY VINNERSON OF CONTROL TO CALLY MANICON TO ME TO CALL THE CONTROL MANICON AND SECURITY AND SECURITY C	22	U	22	100	Indiane-colors on acces
Carbon tetrachloride		22	υ	22	100	
Chlorobenzene		18	U	18	100	
Chloroform		18	U	18	100	
1,2-Dichloroethane		22	υ	22	100	
1,1-Dichloroethene		23	U	23	100	
2-Butanone (MEK)		32	U	32	200	
Tetrachloroethene		46	U	46	100	
Trichloroethene		26	U	26	100	
Vinyl chloride		32	U	32	100	
1,4-Dichlorobenzene		22	U	22	100	

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104	Berger Server and American Server Server Server Server Server Server American American Server Server Server Se	70 - 130
Dibromofluoromethane	87		70 - 130
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130

Client: Noltex LLC Job Number: 600-12080-1

Client Sample ID:

#325 East Filter Press

Lab Sample ID:

600-12080-1

Client Matrix:

Solid

Date Sampled: 06/26/2009 1030

Date Received: 06/26/2009 1248

00700 0 ! ! !! 0 ! !	A	Ola	0
8270C Semivolatile Compounds	DV Gas	Unromatography/wass	Spectrometry (GC/IVIS)-1 CLP

Method: Preparation:

Dilution:

8270C 3510C

1.0

Analysis Batch: 600-17546

Prep Batch: 600-17412

Leachate Batch: 600-17301

Instrument ID: Lab File ID: SVMS05 Z0708921.D

Initial Weight/Volume: Final Weight/Volume:

995 mL 1.00 mL

Injection Volume:

1.0 uL

Date Analyzed:
Date Prepared:
Date Leached:

07/08/2009 2145 07/07/2009 1416 07/02/2009 1500

07/02/2009 1500

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL	
1,4-Dichlorobenzene	TELENOONIANO CARTINERRO METARICAN PERANCESARA PER PER CONTRACTOR DE LOS CONTRACTOR DE LA CONTRACTOR DE LA CONT	1.3	Ü	1.3	10	W2-40-13-100-13-40-1013-0
2,4-Dinitrotoluene		0.95	U	0.95	10	
2,4,5-Trichlorophenol		1.3	U	1.3	10	
2,4,6-Trichlorophenol		0.92	U	0.92	10	
2-Methylphenol		1.0	U	1.0	10	
3 & 4 Methylphenol		1.9	U	1.9	20	
Hexachlorobenzene		0.90	U	0.90	10	
Hexachlorobutadiene		1.1	U	1.1	10	
Hexachloroethane		1.2	U	1.2	10	
Nitrobenzene		1.2	U	1.2	10	
Pentachlorophenol		0.89	U	0.89	50	
Pyridine		1.0	U *	1.0	10	

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d6	51	200 2 m	10 - 94
Nitrobenzene-d5	92		35 - 114
2-Fluorophenol	66		21 - 100
2-Fluorobiphenyl	91		43 - 116
2,4,6-Tribromophenol	109		10 - 123
Terphenyl-d14	105		33 - 141

Analytical Data

Client: Noltex LLC Job Number: 600-12080-1

Client Sample ID:

#325 East Filter Press

Lab Sample ID:

600-12080-1

Client Matrix:

Solid

Date Sampled: 06/26/2009 1030

Date Received: 06/26/2009 1248

6010B Metals (ICP)-TCLP

Method: Preparation: 6010B 3010A Analysis Batch: 600-17523 Prep Batch: 600-17467

Instrument ID: Lab File ID:

TJA1 T070909

Dilution: Date Analyzed:

1.0 07/09/2009 0932 Leachate Batch: 600-17301

Initial Weight/Volume:

50 mL

Date Prepared: Date Leached:

07/08/2009 0948 07/02/2009 1500 Final Weight/Volume:

50 mL

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL	
Lead	ACTION CASE AND TOTAL POST TO ACTION OF A CANADAS AND ACTION OF THE CASE ACTION OF THE CA	0.0029	U	0.0029	0.010	
Chromium		0.0070	J	0.0016	0.010	
Cadmium		0.00073	U	0.00073	0.0050	
Barium		0.080	В	0.0016	0.020	
Arsenic		0.011	В	0.0033	0.010	
Silver		0.0012	U	0.0012	0.010	
Selenium		0.012	JВ	0.0042	0.040	

7470A Mercury (CVAA)-TCLP

Method: Dilution:

Preparation:

7470A 7470A

1.0

07/07/2009 1408 Date Analyzed: 07/07/2009 1000 Date Prepared:

Date Leached:

07/02/2009 1500

Analysis Batch: 600-17415

Prep Batch: 600-17381 Leachate Batch: 600-17301

Instrument ID: Lab File ID:

FIMS01 N/A Initial Weight/Volume: 40 mL

Final Weight/Volume:

40 mL

Analyte DryWt Corrected: N Qualifier MDL RL Result (ug/L) Mercury 0.021 0.20 0.021

Client: Noltex LLC Job Number: 600-12080-1

General Chemistry Client Sample ID: #325 East Filter Press Lab Sample ID: 600-12080-1 Date Sampled: 06/26/2009 1030 Client Matrix: Solid Date Received: 06/26/2009 1248 Analyte Result Qual Units MDL RL Dil Method Cyanide, Reactive 9012 18 U ug/Kg 18 250 1.0 Analysis Batch: 600-17274 Date Analyzed: 07/02/2009 1348 DryWt Corrected: N Prep Batch: 600-17173 Date Prepared: 07/01/2009 1150 Sulfide, Reactive 7.4.4 30 mg/Kg 14 50 1.0 Analysis Batch: 600-17273 Date Analyzed: 07/02/2009 1230 DryWt Corrected: N Prep Batch: 600-17173 Date Prepared: 07/01/2009 1150 Analyte Dil Method Result Qual Units RL RL Flashpoint >212 Degrees F 1.0 1.0 1.0 D92 Analysis Batch: 600-17227 Date Analyzed: 07/01/2009 1300 DryWt Corrected: N рΗ 0.0100 9045C 6.08 HF SU 0.0100 1.0 Analysis Batch: 600-17024 DryWt Corrected: N Date Analyzed: 06/29/2009 0830 BTU D240-87 15000 BTU/lb 500 500 1.0 DryWt Corrected: N Analysis Batch: 600-17482 Date Analyzed: 07/07/2009 1645

METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity	TAL HOU	SW846 9045C	
Heat of Combustion	TAL HOU	ASTM D240-87	
Flashpoint	TAL HOU	ASTM D92	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zaifang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Puranik, Surendra U	SUP
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

TestAmerica Houston

Client: Noltex LLC Job Number: 600-12080-1

TCLP SPLPE Leachate Blank - Batch: 600-17596

Method: 8260B Preparation: 5030B

TCLP

Lab Sample ID: LB 600-17517/1-A

Analysis Batch: 600-17596

Instrument ID: VOA-V

Client Matrix:

Solid

Dilution:

Prep Batch: N/A

Lab File ID:

H19004.D

Analyte

Benzene

Carbon tetrachloride

1,1-Dichloroethene

2-Butanone (MEK)

Tetrachloroethene

1,4-Dichlorobenzene

Trichloroethene

Vinyl chloride

Chlorobenzene

Chloroform 1,2-Dichloroethane

20

46

26

32

22

Date Analyzed: 07/09/2009 1319

Units: ug/L

Initial Weight/Volume: 5 mL

Date Prepared:

07/09/2009 1319

Final Weight/Volume: 5 mL

100

100

100

100

Date Leached:

07/08/2009 0800

Leachate Batch: 600-17517

46

26

32

22

RL Result Qual MDL 22 U 22 100 22 U 22 100 18 U 18 100 18 U 18 100 22 U 22 100 23 100 23 U 32 U 32 200

U

U

U

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	103	70 - 130
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	103	70 - 130
1,2-Dichloroethane-d4 (Surr)	90	70 - 130

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17596

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 600-17596/3 Client Matrix:

Water

Dilution:

1.0

Date Analyzed: 07/09/2009 1345

Date Prepared: 07/09/2009 1345

Analysis Batch: 600-17596

Prep Batch: N/A

Units: ug/L

Instrument ID: VOA-V Lab File ID: H19005.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	Ü	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	103	70 - 130		
Dibromofluoromethane	88	70 - 130		
Toluene-d8 (Surr)	99	70 - 130		
1,2-Dichloroethane-d4 (Surr)	88	70 - 130		

Client: Noltex LLC Job Number: 600-12080-1

Lab Control Sample - Batch: 600-17596

Method: 8260B Preparation: 5030B

Lab Sample ID: LCS 600-17596/1 Client Matrix:

Water

Dilution:

Date Analyzed: 07/09/2009 1211 Date Prepared: 07/09/2009 1211

1.0

Analysis Batch: 600-17596

Prep Batch: N/A

Units: ug/L

Lab File ID:

Instrument ID: VOA-V H19003.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	49.3	99	69 - 124	conserved to the second
Carbon tetrachloride	50.0	44.4	89	57 - 134	
Chlorobenzene	50.0	46.4	93	70 - 129	
Chloroform	50.0	45.0	90	69 - 128	
1,2-Dichloroethane	50.0	43.9	88	65 - 134	
1,1-Dichloroethene	50.0	41.1	82	45 - 136	
2-Butanone (MEK)	100	123	123	53 - 140	
Tetrachloroethene	50.0	46.3	93	59 - 134	
Trichloroethene	50.0	46.7	93	68 - 130	
Vinyl chloride	50.0	43.6	87	38 - 153	
1,4-Dichlorobenzene	50.0	45.0	90	72 - 131	
Surrogate	% F	% Rec		Acceptance Limits	
4-Bromofluorobenzene	10	102		70 - 130	
Dibromofluoromethane	10	100		70 - 130	
Toluene-d8 (Surr)	96	96		70 - 130	
1,2-Dichloroethane-d4 (Surr)	97	•	70 - 130		

Client: Noltex LLC Job Number: 600-12080-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 600-17596

Method: 8260B Preparation: 5030B

TCLP

MS Lab Sample ID:

600-12080-1

Analysis Batch: 600-17596

Instrument iD:

VOA-V

Client Matrix:

Solid

Lab File ID:

H19006.D

Dilution:

Prep Batch: N/A

Date Analyzed:

20

Initial Weight/Volume: Final Weight/Volume:

5 mL

Date Prepared:

07/09/2009 1411 07/09/2009 1411

Leachate Batch: 600-17517

5 mL

Date Leached:

600-12080-1

Analysis Batch: 600-17596

Instrument ID: VOA-V

MSD Lab Sample ID: Client Matrix:

Solid

Lab File ID:

H19007.D

Dilution:

Prep Batch: N/A

Initial Weight/Volume: 5 mL

Date Analyzed:

07/09/2009 1437

07/08/2009 0800

Final Weight/Volume: 5 mL

Date Prepared: Date Leached:

07/09/2009 1437 07/08/2009 0800

Leachate Batch: 600-17517

	<u>% R</u>	ec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	101	102	65 - 125	2	21	001 MARGOTTO PERSONAL PROPERTY OF THE STATE	eer etistoodkattookoostakkoaoooentii tiisti biristiistii
Carbon tetrachloride	93	93	60 - 140	0	25		
Chlorobenzene	94	92	74 - 122	3	21		
Chloroform	91	90	60 - 140	1	25		
1,2-Dichloroethane	95	96	60 - 140	1	25		
1,1-Dichloroethene	95	87	22 - 123	9	22		
2-Butanone (MEK)	119	115	60 - 140	3	25		
Tetrachloroethene	91	90	60 - 140	2	25		
Trichloroethene	98	97	56 - 118	1	24		
Vinyl chloride	80	78	60 - 140	3	25		
1,4-Dichlorobenzene	98	93	60 - 140	5	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	115	112	70 - 130
Dibromofluoromethane	102	100	70 - 130
Toluene-d8 (Surr)	106	104	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	93	70 - 130

Client: Noltex LLC Job Number: 600-12080-1

Method Blank - Batch: 600-17412

Method: 8270C Preparation: 3510C

Lab Sample ID: MB 600-17412/1-A Client Matrix:

Dilution:

Date Analyzed: 07/08/2009 1353

1.0

Date Prepared: 07/07/2009 1416

Water

Analysis Batch: 600-17546 Prep Batch: 600-17412

Units: ug/L

Instrument ID: MSD2348

Lab File ID: Z0708907.D

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1.00 mL ction Volume: 1.0 uL

In	ject	ion	٧	0	lu

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10
Surrogate	% Rec		Acceptance Limits	
Phenol-d6	35		10 - 94	
Nitrobenzene-d5	76		35 - 114	
2-Fluorophenol	47		21 - 100	
2-Fluorobiphenyl	71		43 - 116	
2,4,6-Tribromophenol	85		10 - 123	
Terphenyl-d14	91		33 - 141	

Client: Noltex LLC Job Number: 600-12080-1

TCLP SPLPE Leachate Blank - Batch: 600-17412

Method: 8270C

Preparation: 3510C

TCLP

Lab Sample ID: LB 600-17301/1-C

Client Matrix: Solid Analysis Batch: 600-17546

Instrument ID: MSD2348

Dilution:

1.0

Prep Batch: 600-17412

Z0708912.D Lab File ID:

Date Analyzed: 07/08/2009 1642

Units: ug/L

Initial Weight/Volume: 1005 mL

Final Weight/Volume: 1.00 mL

Injection Volume:

1.0 uL

Date Prepared: 07/07/2009 1416 Date Leached: 07/02/2009 1500

Leachate Batch: 600-17301

Analyte	Result	Qual	MDL	RL	
1,4-Dichlorobenzene	1.3	U Same and the sam	1.3	10	UTDACCO TURNOCISMAC VOCO
2,4-Dinitrotoluene	0.95	U	0.95	10	
2,4,5-Trichlorophenol	1.3	U	1.3	10	
2,4,6-Trichlorophenol	0.92	U	0.92	10	
2-Methylphenol	1.0	U	1.0	10	
3 & 4 Methylphenol	1.9	U	1.9	20	
Hexachlorobenzene	0.90	U	0.90	10	
Hexachlorobutadiene	1.1	U	1.1	10	
Hexachloroethane	1.2	U	1.2	10	
Nitrobenzene	1.2	U	1.2	10	
Pentachlorophenol	0.89	U	0.89	50	
Pyridine	1.0	U	1.0	10	

Surrogate	% Rec	Acceptance Limits
Phenol-d6	49	10 - 94
Nitrobenzene-d5	91	35 - 114
2-Fluorophenol	63	21 - 100
2-Fluorobiphenyl	87	43 - 116
2,4,6-Tribromophenol	111	10 - 123
Terphenyl-d14	112	33 - 141

Client: Noltex LLC

Job Number: 600-12080-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 600-17412

Method: 8270C Preparation: 3510C

LCS Lab Sample ID: LCS 600-17412/2-A

Analysis Batch: 600-17546

Client Matrix:

Water

Instrument ID: MSD2348

Dilution:

Prep Batch: 600-17412

Lab File ID:

Z0708908.D

1.0

Units: ug/L

Initial Weight/Volume:

1000 mL 1.00 mL

Date Analyzed: Date Prepared: 07/08/2009 1427 07/07/2009 1416

Final Weight/Volume: Injection Volume:

1.0 uL

LCSD Lab Sample ID: LCSD 600-17412/3-A

Analysis Batch: 600-17546

MSD2348

Client Matrix:

Water

Prep Batch: 600-17412

Lab File ID: Initial Weight/Volume:

Z0708909.D 1000 mL

Dilution: Date Analyzed: Date Prepared:

1.0

07/08/2009 1501

Units: ug/L

Final Weight/Volume:

Instrument ID:

1.00 mL

07/07/2009 1416

Injection Volume:

1.0 uL

	9	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,4-Dichlorobenzene	tance accession de de de conserva conserva conserva e e e e e e e e e e e e e e e e e e e	87	45 - 105	2	20	oorde transcoration was don't validorité des étrants voca	oper-recount 86,4000 the inst ruct ry reconstruction in 17,4000
2,4-Dinitrotoluene	110	110	61 - 162	0	20		
2,4,5-Trichlorophenol	95	97	59 - 123	2	20		
2,4,6-Trichlorophenol	96	94	30 - 143	2	20		
2-Methylphenol	79	82	34 - 109	4	20		
3 & 4 Methylphenol	92	93	27 - 113	2	20		
Hexachlorobenzene	104	103	62 - 121	2	20		
Hexachlorobutadiene	91	91	32 - 143	1	20		
Hexachloroethane	85	86	42 - 110	1	20		
Nitrobenzene	94	93	55 - 115	1	20		
Pentachlorophenol	94	89	44 - 142	5	20	J	J
Pyridine	58	33	10 - 109	54	40		*
Surrogate	L	CS % Rec	LCSD %	Rec	Accep	tance Limits	
Phenol-d6	4	9	50		1	0 - 94	
Nitrobenzene-d5	9	9	96		3	5 - 114	
2-Fluorophenol	6	4	64		2	1 - 100	
2-Fluorobiphenyl	9	3	93		4	3 - 116	
2,4,6-Tribromophenol	1	17	112		1	0 - 123	
Terphenyl-d14	1	06	103		3	3 - 141	

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17467

Method: 6010B Preparation: 3010A

Lab Sample ID: MB 600-17467/1-A

Analysis Batch: 600-17523

Instrument ID: TJA ICP 61E

Client Matrix:

Water

Prep Batch: 600-17467

T070909

Dilution:

Lab File ID: Initial Weight/Volume: 50 mL

1.0

Units: mg/L

Final Weight/Volume: 50 mL

Date Analyzed: 07/09/2009 0830 Date Prepared:

07/08/2009 0922

Analyte	Result	Qual	MDL	RL
Feaq *** The address of the control	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.0016	U	0.0016	0.020
Arsenic	0.0033	U	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-17467

Method: 6010B Preparation: 3010A

Lab Sample ID: LB 600-17379/3-D

Analysis Batch: 600-17523

TCLP

Client Matrix:

Solid

Prep Batch: 600-17467

Instrument ID: TJA ICP 61E Lab File ID: T070909

Dilution:

1.0

Units: mg/L

Date Analyzed: 07/09/2009 0856

Initial Weight/Volume: 50 mL

Date Prepared: 07/08/2009 0922

Final Weight/Volume:

50 mL

Date Leached: 07/06/2009 1440

Leachate Batch: 600-17379

Analyte	Result	Qual	MDL	RL	
Feat	0.0029	U	0.0029	0.010	CP Property Copy (Falls), Lever
Chromium	0.0016	U	0.0016	0.010	
Cadmium	0.00073	U	0.00073	0.0050	
Barium	0.021		0.0016	0.020	
Arsenic	0.0078	J	0.0033	0.010	
Silver	0.0012	U	0.0012	0.010	
Selenium	0.011	J	0.0042	0.040	

0.040

Client: Noltex LLC Job Number: 600-12080-1

TCLP SPLPE Leachate Blank - Batch: 600-17467

07/09/2009 0925

07/02/2009 1500

Date Analyzed:

Date Leached:

Selenium

Method: 6010B Preparation: 3010A

0.0042

TCLP

Lab Sample ID: LB 600-17301/1-F Analysis Batch: 600-17523

Client Matrix: Solid Prep Batch: 600-17467 Lab File ID:
Dilution: 1.0 Units: mg/L Initial Weight/Vo

Units: mg/L Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Date Prepared: 07/08/2009 0924

Analyte Result Qual MDL RL Lead 0.0029 U 0.0029 0.010 Chromium 0.0016 U 0.0016 0.010 Cadmium 0.00073 U 0.00073 0.0050 0.020 Barium 0.071 0.0016 Arsenic 0.0093 0.010 Л 0.0033 Silver 0.010 0.0012 U 0.0012

Leachate Batch: 600-17301

Lab Control Sample - Batch: 600-17467 Method: 6010B
Preparation: 3010A

 Lab Sample ID:
 LCS 600-17467/2-A
 Analysis Batch:
 600-17523
 Instrument ID:
 TJA ICP 61E

 Client Matrix:
 Water
 Prep Batch:
 600-17467
 Lab File ID:
 T070909

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 50 mL

Date Analyzed: 07/09/2009 0834 Final Weight/Volume: 50 mL

0.0098

Date Analyzed: 07/09/2009 0834 Final Weight/Volume: 50 mL Date Prepared: 07/08/2009 0922

Analyte Spike Amount Result % Rec. Limit Qual 1.00 Lead 1.02 102 80 - 120 Chromium 80 - 120 1.00 0.998 100 Cadmium 0.500 0.502 80 - 120 100 Barium 1.00 1.02 102 80 - 120 Arsenic 1.00 1.01 101 80 - 120 Silver 0.500 0.496 99 80 - 120 80 - 120 Selenium 1.00 1.01 101

Client: Noltex LLC Job Number: 600-12080-1

Method Blank - Batch: 600-17381 Method: 7470A
Preparation: 7470A

1 Topulation 1 1 1 2 1

Lab Sample ID: MB 600-17381/7-A Analysis Batch: 600-17415 Instrument ID: Perkin Elmer FIMS-100 Client Matrix: Water Prep Batch: 600-17381 Lab File ID: N/A

Dilution: 1.0 Units: ug/L Initial Weight/Volume: 40 mL

Date Analyzed: 07/07/2009 1332 Final Weight/Volume: 40 mL

Date Prepared: 07/07/2009 1000

 Analyte
 Result
 Qual
 MDL
 RL

 Mercury
 0.021
 U
 0.021
 0.20

0.021

TCLP SPLPE Leachate Blank - Batch: 600-17381 Method: 7470A Preparation: 7470A

TCLP

Lab Sample ID: LB 600-17301/1-B Analysis Batch: 600-17415 Instrument ID: Perkin Elmer FIMS-100 Client Matrix: Solid Prep Batch: 600-17381 Lab File ID: N/A

Dilution: 1.0 Units: ug/L Initial Weight/Volume: 40 mL

Date Analyzed: 07/07/2009 1356 Final Weight/Volume: 40 mL

Date Prepared: 07/07/2009 1000

Date Leached: 07/02/2009 1500

Leachate Batch: 600-17301

Analyte Result Qual MDL RL

Mercury 0.18 J 0.021 0.20

Lab Control Sample - Batch: 600-17381 Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 600-17381/8-A Analysis Batch: 600-17415 Instrument ID: Perkin Elmer FIMS-100

Client Matrix: Water Prep Batch: 600-17381 Lab File ID: N/A

 Dilution:
 1.0
 Units:
 ug/L
 Initial Weight/Volume:
 50 mL

 Date Analyzed:
 07/07/2009 1334
 Final Weight/Volume:
 50 mL

 Date Prepared:
 07/07/2009 1000

 Analyte
 Spike Amount
 Result
 % Rec.
 Limit
 Qual

 Mercury
 3.00
 3.01
 100
 80 - 120

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17173

Method: 7.4.4 Preparation: 7.3.4

Lab Sample ID: MB 600-17173/1-A Client Matrix:

Dilution:

Solid

Date Analyzed: 07/02/2009 1230

1.0

Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17273 Prep Batch: 600-17173

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID:

N/A

Initial Weight/Volume: 10 mL

Final Weight/Volume:

250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

Lab Control Sample - Batch: 600-17173

Method: 7.4.4 Preparation: 7.3.4

Lab Sample ID: LCS 600-17173/2-A

Client Matrix:

Solid

Dilution:

1.0 Date Analyzed: 07/02/2009 1230

Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17273 Prep Batch: 600-17173

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: 10 mL

Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1760	1090	62	0 - 100	essessates esses removembre contest erosco

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17173

Method: 9012 Preparation: 7.3.3

Lab Sample ID:

MB 600-17173/1-A

Client Matrix:

Solid

Dilution:

Date Analyzed: Date Prepared:

1.0

07/02/2009 1348

07/01/2009 1150

Analysis Batch: 600-17274 Prep Batch: 600-17173

Units: ug/Kg

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

10 mL 250 mL

Analyte

Result

MDL

RL

Cyanide, Reactive

18

Analysis Batch: 600-17274

U

Qual

250

Lab Control Sample - Batch: 600-17173

Method: 9012 Preparation: 7.3.3

18

Lab Sample ID: LCS 600-17173/2-A

Client Matrix:

Solid

Dilution:

20

07/02/2009 1348 Date Analyzed: 07/01/2009 1150 Date Prepared:

Prep Batch: 600-17173

Units: ug/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume:

10 mL

Final Weight/Volume:

250 mL

Analyte

Spike Amount

Result

% Rec.

Limit

Cyanide, Reactive

1000000

48100

5

0 - 100

Qual

Client: Noltex LLC

Job Number: 600-12080-1

Lab Control Sample - Batch: 600-17024

Method: 9045C Preparation: N/A

Lab Sample ID: LCS 600-17024/1 Client Matrix:

Solid

1.0

Dilution: Date Analyzed: 06/29/2009 0830

Analysis Batch: 600-17024

Prep Batch: N/A

Units: SU

Instrument ID: No Equipment Assigned

Lab File ID:

N/A

Initial Weight/Volume:

50 mL

Final Weight/Volume:

50 mL

Date Prepared: N/A

Analyte Spike Amount Result % Rec. Limit Qual рΗ 7.00 7.010 100 99 - 101

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17482

Method: D240-87 Preparation: N/A

Lab Sample ID: MB 600-17482/10

Client Matrix: Solid Dilution:

1.0

Date Analyzed: 07/07/2009 1645

Date Prepared: N/A

Analysis Batch: 600-17482

Units: BTU/lb

Prep Batch: N/A

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

1.0263 g

Final Weight/Volume:

1.0 mL

Analyte

Result

Qual

RL

RL

BTU

500

Ū

500

500

Lab Control Sample - Batch: 600-17482

Method: D240-87 Preparation: N/A

Dilution:

Lab Sample ID: LCS 600-17482/1

Client Matrix:

Solid

1.0

Date Analyzed:

07/07/2009 1645

Analysis Batch: 600-17482

Prep Batch: N/A

Units: BTU/lb

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Final Weight/Volume:

Initial Weight/Volume: 0.9875 g

1.0 mL

Date Prepared:

Spike Amount

% Rec.

Limit

Analyte BTU

11400

Result 11200

98

90 - 110

Qual

Client: Noltex LLC Job Number: 600-12080-1

Method Blank - Batch: 600-17227

Method: D92 Preparation: N/A

Lab Sample ID: MB 600-17227/1

Solid

Client Matrix: Dilution: 1.0

Date Prepared: N/A

07/01/2009 1300 Date Analyzed:

Analysis Batch: 600-17227

Prep Batch: N/A

Units: Degrees F

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

1.0 mL

Analyte

Result

Qual

RL

RL

Flashpoint

>186

1.0

1.0

Lab Control Sample - Batch: 600-17227

Method: D92 Preparation: N/A

Lab Sample ID: LCS 600-17227/2

Client Matrix:

Solid

1.0

Date Analyzed:

Dilution:

07/01/2009 1300

Analysis Batch: 600-17227

Prep Batch: N/A

Units: Degrees F

Instrument ID: No Equipment Assigned

Lab File ID: N/A Initial Weight/Volume:

Final Weight/Volume: 60 mL

Date Prepared: N/A

Spike Amount

Result

% Rec.

Limit

Qual

Flashpoint

Analyte

81.0

82.0

101

96.91 - 103.09

DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-12080-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J .	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Job Narrative 600-J12080-1

GC/MS Semi VOA

Method 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 17412 exceeded control limits for the following analytes: Pyridine.

No other analytical or quality issues were noted.

Te	Si		n	e	ri	C	Q

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

TestAmerica Laboratories, Inc.

	Information			Project In		n						/leth			Mary (Sara	920 G	######################################	
PO:				Project Na		Waste Disp						latile					K						
WO:				TAL Project	ct No:	6000046			_					s (82			L						
Company:	Noltex, LLC			Bill To:		Noltex, LI			1		P-Me	tals	(6010	0/747	70)		М						
Report to:	Joy Snodgrass			Invoice AT	TN:	Joy Snod			프.	RCI							N						
Address:	12220 Strang I	Road		Address:		12220 St				вти	s						0						
Į.	La Porte, TX 7	7571-9740				La Porte,	TX 7757	1-9740	F								Р						
									G								Q						
E-mail:	Joy Snodgras	s@noltex.com						noltex.com	Н							·····	R		·			···	
Phone:	281-842-5039			Phone:		281-842-			<u> </u>								Oth	er:					
Fax:	281-842-5097		44444	Fax:		281-842-	5097		IJ_								<u> </u>						
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No.	Sample Des		Preservation		Time	<u> </u>	# Cont.	Comments						Fje	3 H		J	K	<u> </u>	VI N	0	PI	Q R
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Sampler:	-			Shipment	Method:	TAL Pick		Required TAT: 24-h	48	-h	72-r	1 5	Day	ys	10 E	ays	Oth	ner:_					
1 Relinquish	ned by: Tombonom		2. Received by:	ZnT.	Date: 6/26	Leg.	3. Retinqu	ished by:		Dat	20	6	7	. Red	ceive	d by:					Date 2	e: 60	, 9
Company:	-0,-0	Time: 10239	Company:	re	Time:	39	Company	120		l Tim	۵.	- Ell	10	omp	any:	T	n				Tim	e: 25:	G
5. Relinquisi		Date:	6. Received by:		Date:	·	7. Relinqu	ished by:		Dat		U	-	. Red	ceive	d by:					Date	e:	
Company;		Time:	Company:		Time:		Company	•		Tim	e:		C	Comp	any:						Tim	e:	
Comment	ts/Notes:																						
PestAmerica PAL Project	a Laboratories Manager:	6310 Rothway Driv Neil Rodrigue	ve, Suite 130 713-358-2006	,	Houston	.TX 77040			Ph	one:	713.	690.4	444						F	-ax: 7	13.69	0.564	16

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-12080-1

Login Number: 12080 Creator: Trenery, Michael J

List Number: 1

List Source: TestAmerica Houston

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and he COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
/OA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
f necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
s the Field Sampler's name present on COC?	True	



ANALYTICAL REPORT

Job Number: 600-11197-1

Job Description: MeOH Feed Filter 6/1/09

For:
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil a. Rodrigue

Approved for release Neil A Rodrigue Project Manager II 6/11/2009.3:55 PM

Neil A Rodrigue Project Manager II neil.rodrigue@testamericainc.com 06/11/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040 Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-11197-4	MeOH Feed Filter COMPOSITE	Solid	06/01/2009 0240	06/02/2009 1300

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID:

MeOH Feed Filter COMPOSITE

Lab Sample ID:

600-11197-4

Client Matrix:

Solid

Date Sampled:

06/01/2009 0240

Date Received:

06/02/2009 1300

8260B Volatile	Organic	Compounds	(GC/MS)-TCLP
OZOOD VOIALIIE	Organic	Compounds	(GC/MO)-I CEF

Method:

8260B

Analysis Batch: 600-16207

Instrument ID:

VOA-V

Preparation:

5030B

Lab File ID:

H16019.D

Dilution:

20

Leachate Batch: 600-16132

Initial Weight/Volume:

5 mL

Date Analyzed: Date Prepared: 06/09/2009 1938 06/09/2009 1938 Final Weight/Volume:

5 mL

Date Leached:

06/08/2009 1630

Analyte	DryWt Corrected: N Result (ug/L)	Qualifier	MDL	RL	
Benzene	22	U	22	100	1014-004-000-004,1 30 0-0-004
Carbon tetrachloride	22	U	22	100	
Chlorobenzene	18	U	18	100	
Chloroform	18	U	18	100	
1,2-Dichloroethane	22	U	22	100	
1,1-Dichloroethene	23	U	23	100	
2-Butanone (MEK)	32	U	32	200	
Tetrachloroethene	46	U	46	100	
Trichloroethene	26	U	26	100	
Vinyl chloride	32	U	32	100	
1,4-Dichlorobenzene	22	U	22	100	
Surrogate	%Rec		Accept	ance Limits	

Surrogate	%Rec	Acceptance Lim
4-Bromofluorobenzene	112	70 - 130
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	12 4	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	70 - 130

Client: Noltex LLC Job Number: 600-11197-1

Client Sample ID:

MeOH Feed Filter COMPOSITE

Lab Sample ID:

2-Fluorobiphenyl

Terphenyl-d14

2,4,6-Tribromophenol

600-11197-4

Date Sampled:

06/01/2009 0240

43 - 116

10 - 123

33 - 141

Client Matrix:	Solid			Date Received:	06/02/2009 1300
	8270C Semivo	latile Compounds by Gas Chromatography	/Mass Spectro	ometry (GC/MS)-TC	LP
Method:	8270C	Analysis Batch: 600-16299	In	strument ID: M	ISD2348
Preparation:	3510C	Prep Batch: 600-16169	La	ab File ID: Z	0610913.D
Dilution:	1.0	Leachate Batch: 600-16122	In	itial Weight/Volume:	1000 mL
Date Analyzed:	06/10/2009 1915	i	Fi	nal Weight/Volume:	1.00 mL
Date Prepared:	06/09/2009 1512			jection Volume:	1.0 uL
Date Leached:	06/08/2009 1630		•	•	
Analyte		DryWt Corrected: N Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzen	e	1.3	U	1.3	10
2,4-Dinitrotoluene		0.95	U	0.95	10
2,4,5-Trichlorophene	ol	1.3	U	1.3	10
2,4,6-Trichlorophene	ol	0.92	U	0.92	10
2-Methylphenol		1.0	U	1.0	10
3 & 4 Methylphenol		1.9	U	1.9	20
Hexachlorobenzene	!	0.90	U	0.90	10
Hexachlorobutadien	ie	1.1	U	1.1	10
Hexachloroethane		1.2	U	1.2	10
Nitrobenzene		1.2	U	1.2	10
Pentachlorophenol		0.89	U	0.89	50
Pyridine		1.0	U	1.0	10
Surrogate		%Rec		Accep	tance Limits
Phenol-d6	er og det til er sem er sjölle sterret dem. Ett og vergigen i glev præmer sem vinnen av som ett og er sem gle	31	Pringerous personal sections of Principles 200 fill fill of the Control of Principles (1994)	10 - !	94
Nitrobenzene-d5		87		. 35 -	114
2-Fluorophenol		47		21 -	100

91

97

73

TJA ICP 61E

Perkin Elmer

N/A

40 mL

40 mL

J061109

50 mL

50 mL

Client: Noltex LLC Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4 Date Sampled: 06/01/2009 0240

Client Matrix: Solid 06/02/2009 1300 Date Received:

6010B Metals (ICP)-TCLP

Method: 6010B Analysis Batch: 600-16296

Preparation: 3010A Prep Batch: 600-16250

Dilution: 1.0 Leachate Batch: 600-16122 06/11/2009 1101

Initial Weight/Volume: Final Weight/Volume:

Instrument ID:

Instrument ID:

Initial Weight/Volume:

Final Weight/Volume:

Lab File ID:

Lab File ID:

Date Analyzed: 06/10/2009 1555 Date Prepared:

06/08/2009 1630 Date Leached:

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Pb	katik (MPP-METT) IN 1998 Aydan in MERIOGON 1997 AMERICAN MEDIODE THEOREM (MPP-METT) AMERICAN AND	0.0029	<u> </u>	0.0029	0.010
Cr		0.0016	U	0.0016	0.010
Cd		0.00073	U	0.00073	0.0050
Ва		0.016	JB	0.0016	0.020
As		0.0099	JВ	0.0033	0.010
Ag		0.0012	U	0.0012	0.010
Se		0.0042	U	0.0042	0.040

7470A Mercury (CVAA)-TCLP

Method: 7470A Analysis Batch: 600-16247 Preparation: 7470A Prep Batch: 600-16195

Dilution: 1.0 Leachate Batch: 600-16122

06/10/2009 1506 Date Analyzed: 06/10/2009 0900 Date Prepared:

06/08/2009 1630 Date Leached:

Analyte DryWt Corrected: N Result (ug/L) Qualifier MDL RL Mercury 0.021 U 0.021 0.20

Client: Noltex LLC

Job Number: 600-11197-1

		General Chemistry				
Client Sample ID:	MeOH Feed Filter COMPO	SITE				
Lab Sample ID:	600-11197-4			Date Sampled:	06/0	01/2009 0240
Client Matrix:	Solid			Date Received:	06/0	02/2009 1300
Analyte	Result	Qual Units	MDL	RL	Dil	Method
Cyanide, Reactive	18	U ug/Kg	18	250	1.0	9012
	Anly Batch: 600-16157		9/2009 1301		Dry\	Wt Corrected: N
	Prep Batch: 600-16066	Date Prepared: 06/08	3/2009 1220			
Sulfide, Reactive	40	J mg/Kg	14	50	1.0	7.4.4
	Anly Batch: 600-16165	Date Analyzed 06/09	9/2009 1223		Dry\	Wt Corrected: N
	Prep Batch: 600-16066	Date Prepared: 06/08	3/2009 1220			
Analyte	Result	Qual Units	RL	RL	Dil	Method
pH	7.39	HF SU	0.0100	0.0100	1.0	9045C
	Anly Batch: 600-16015	Date Analyzed 06/05	5/2009 1020		Dry	Wt Corrected: N
вти	2100	BTU/lb	500	500	1.0	D240-87
	Anly Batch: 600-16133	Date Analyzed 06/08	3/2009 1630		Dry	Wt Corrected: N
Flashpoint	>212	Degrees F	1.0	1.0	1.0	D92
	Anly Batch: 600-16176	Date Analyzed 06/09	9/2009 1530		Drv\	Wt Corrected: N

METHOD SUMMARY

Client: Noltex LLC Job Number: 600-11197-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity	TAL HOU	SW846 9045C	
Heat of Combustion	TAL HOU	ASTM D240-87	
Flashpoint	TAL HOU	ASTM D92	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Method	Analyst	Analyst ID
SW846 8260B	Vela, Kenneth L	KLV
SW846 8270C	Dang, Tram T	TTD
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Gregory, Sharita N	SNG
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

TestAmerica Houston

Client: Noltex LLC Job Number: 600-11197-1

TCLP SPLPE Leachate Blank - Batch: 600-16207

Method: 8260B Preparation: 5030B

TCLP

Lab Sample ID: LB 600-16132/1-A

Analysis Batch: 600-16207

Client Matrix:

Solid

Instrument ID: VOA-V

Prep Batch: N/A

Lab File ID: H16005.D

Dilution:

20

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 06/09/2009 1343

Date Prepared: 06/09/2009 1343

70 - 130

70 - 130

Final Weight/Volume: 5 mL

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

Date Leached: 06/08/2009 1630

Leachate Batch: 600-16132

Analyte	Result	Qual	MDL	RL
Benzene	22	U	22	100
Carbon tetrachloride	22	U	22	100
Chlorobenzene	18	U	18	100
Chloroform	18	U	18	100
1,2-Dichloroethane	22	U	22	100
1,1-Dichloroethene	23	U	23	100
2-Butanone (MEK)	32	U	32	200
Tetrachloroethene	46	U	46	100
Trichloroethene	26	Ų	26	100
Vinyl chloride	32	U	32	100
1,4-Dichlorobenzene	22	U	22	100
Surrogate	% Rec		Acceptance Limits	SPERMINISTER COMPRESSION SERVICE CONTRACTOR
4-Bromofluorobenzene	116	70 - 130		
Dibromofluoromethane	112		70 - 130	

129

93

Client: Noltex LLC Job Number: 600-11197-1

Method Blank - Batch: 600-16207

Method: 8260B Preparation: 5030B

Client Matrix:

Dilution:

Lab Sample ID: MB 600-16207/3

1.0

1,2-Dichloroethane-d4 (Surr)

Date Prepared: 06/09/2009 1434

Water

Date Analyzed: 06/09/2009 1434

Analysis Batch: 600-16207

Prep Batch: N/A

Units: ug/L

Instrument ID: VOA-V

Lab File ID: H16007.D

70 - 130

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL.
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec	Accep	tance Limits	
4-Bromofluorobenzene	118	7	0 - 130	
Dibromofluoromethane	108	7	0 - 130	
Toluene-d8 (Surr)	126	7	0 - 130	

92

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16207

Method: 8260B Preparation: 5030B

Lab Sample ID: LCS 600-16207/1

Client Matrix:

Water

Analysis Batch: 600-16207

Instrument ID: VOA-V

Prep Batch: N/A

Lab File ID: H16002.D

Initial Weight/Volume: 5 mL

Units: ug/L

Final Weight/Volume: 5 mL

Dilution:	1.0	
Date Analyzed:	06/09/2009	1227
Date Prepared:	06/09/2009	1227

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50,0	51.7	103	69 - 124	Sichnic wayweengga seess server was on the phresidal Andri Growth Philippinos
Carbon tetrachloride	50.0	45.1	90	57 - 134	
Chlorobenzene	50.0	56.4	113	70 - 129	
Chloroform	50.0	49.8	100	69 - 128	
1,2-Dichloroethane	50.0	43.7	87	65 - 134	
1,1-Dichloroethene	50.0	49.0	98	4 5 - 136	
2-Butanone (MEK)	100	117	117	53 - 140	
Tetrachloroethene	50.0	52.9	106	59 - 134	
Trichloroethene	50.0	48.0	96	68 - 130	
Vinyl chloride	50.0	46.5	93	38 - 153	
1,4-Dichlorobenzene	50.0	53.7	107	72 - 131	
Surrogate	% R	lec	Acc	ceptance Limits	
4-Bromofluorobenzene	11	1		70 - 130	
Dibromofluoromethane	10	16		70 - 130	
Toluene-d8 (Surr)	10	19	70 - 130		
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		

Client: Noltex LLC Job Number: 600-11197-1

Method Blank - Batch: 600-16169

Method: 8270C Preparation: 3510C

Lab Sample ID: MB 600-16169/1-A

Analysis Batch: 600-16299

Prep Batch: 600-16169

Instrument ID: MSD2348

Client Matrix: Water

Lab File ID: Z0610904.D

Dilution:

1.0

Units: ug/L

Initial Weight/Volume: 1000 mL

Date Analyzed: 06/10/2009 1431

Final Weight/Volume: 1.00 mL

Injection Volume: 1.0 uL

Date Allalyzeu.	00/10/2003	1431	
Date Prepared:	06/09/2009	1512	

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	<u> </u>	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	υ	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10
Surrogate	% Rec		Acceptance Limits	od IS Wedowski w Common a transport of the common to the c
Phenol-d6	31		10 - 94	
Nitrobenzene-d5	78		35 - 114	
2-Fluorophenol	47		21 - 100	
2-Fluorobiphenyl	76		43 - 116	
2,4,6-Tribromophenol	74		10 - 123	
Terphenyl-d14	71		33 - 141	

Client: Noltex LLC

Job Number: 600-11197-1

TCLP SPLPE Leachate Blank - Batch: 600-16169

Method: 8270C Preparation: 3510C

TCLP

Lab Sample ID: LB 600-16122/1-E

Analysis Batch: 600-16299

Instrument ID: MSD2348

Client Matrix:

Solid

Lab File ID: Z0610908.D

Prep Batch: 600-16169

Initial Weight/Volume: 1000 mL

Dilution:

1.0

Units: ug/L

Final Weight/Volume: 1.00 mL

Date Analyzed: 06/10/2009 1645

Date Prepared: 06/09/2009 1512

Injection Volume:

1.0 uL

Da	te L	.ea	ch	ec	١:

06/08/2009 1630

Leachate Batch: 600-16122

Analyte	Result	Qual	MDL	RL	
1,4-Dichlorobenzene	1.3	<u>U</u>	1.3	10	**************************************
2,4-Dinitrotoluene	0.95	U	0.95	10	
2,4,5-Trichlorophenol	1.3	U	1.3	10	
2,4,6-Trichlorophenol	0.92	U	0.92	10	
2-Methylphenol	1.0	U	1.0	10	
3 & 4 Methylphenol	1.9	U	1.9	20	
Hexachlorobenzene	0.90	U	0.90	10	
Hexachlorobutadiene	1.1	U	1.1	10	
Hexachloroethane	1.2	U	1.2	10	
Nitrobenzene	1.2	U	1.2	10	
Pentachlorophenol	0.89	U	0.89	50	
Pyridine	1.0	U	1.0	10	

Surrogate	% Rec	Acceptance Limits
Phenol-d6	36	10 - 94
Nitrobenzene-d5	89	35 - 114
2-Fluorophenol	55	21 - 100
2-Fluorobiphenyl	90	43 - 116
2,4,6-Tribromophenol	96	10 - 123
Terphenyl-d14	93	33 - 141

Client: Noltex LLC Job Number: 600-11197-1

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 600-16169 Method: 8270C Preparation: 3510C

LCS Lab Sample ID: LCS 600-16169/2-A

Client Matrix:

Instrument ID: Lab File ID:

MSD2348

Water

Analysis Batch: 600-16299

Z0610905.D

Dilution:

Prep Batch: 600-16169

Date Analyzed:

1.0

Units: ug/L

Initial Weight/Volume: Final Weight/Volume:

1000 mL 1.00 mL

Date Prepared:

06/10/2009 1501 06/09/2009 1512

Injection Volume:

1.0 uL

LCSD Lab Sample ID: LCSD 600-16169/3-A

Analysis Batch: 600-16299

MSD2348

Client Matrix:

Water

Prep Batch: 600-16169

Instrument ID: Lab File ID:

Z0610906.D

Dilution:

1.0

Units: ug/L

Initial Weight/Volume:

1000 mL 1.00 mL

Date Analyzed: Date Prepared: 06/10/2009 1532 06/09/2009 1512 Final Weight/Volume: Injection Volume:

1.0 uL

% Rec

		<u>% Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,4-Dichlorobenzene	68	69	45 - 105	1	20	access of the first of the firs	aanaa talkaan aan dhadhaan ah Wilman 1983 oo 1944 1985
2,4-Dinitrotoluene	85	84	61 - 162	1	20		
2,4,5-Trichlorophenol	79	81	59 - 123	3	20		
2,4,6-Trichlorophenol	78	78	30 - 143	1	20		
2-Methylphenol	60	62	34 - 109	4	20		
3 & 4 Methylphenol	64	67	27 - 113	4	20		
Hexachlorobenzene	84	85	62 - 121	1	20		
Hexachlorobutadiene	76	77	32 - 143	1	20		
Hexachloroethane	69	70	42 - 110	1	20		
Nitrobenzene	78	80	55 - 115	3	20		
Pentachlorophenol	70	67	44 - 142	4	20	J	J
Pyridine	43	38	10 - 109	12	40		
Surrogate		LCS % Rec	LCSD %	Rec	Accep	tance Limits	
Phenol-d6		37	39		1.	0 - 94	
Nitrobenzene-d5		85	85		3	5 - 114	
2-Fluorophenol		49	52		2	1 - 100	
2-Fluorobiphenyl		90	87		4	3 - 116	
2,4,6-Tribromophenol		102	103		1	0 - 123	
Terphenyl-d14		84	89		3	3 - 141	

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16250

Method: 6010B Preparation: 3010A

Lab Sample ID: MB 600-16250/1-A

Analysis Batch: 600-16296

Instrument ID: TJA ICP 61E

Client Matrix:

Water

Prep Batch: 600-16250

Lab File ID:

J061109

Dilution:

1.0

Units: mg/L

Initial Weight/Volume: 50 mL

Date Analyzed: 06/11/2009 1049 Date Prepared:

06/10/2009 1555

Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL	
рb	0.0029	U	0.0029	0.010	/coordinate-stopology or
Cr	0.0016	IJ	0.0016	0.010	
Cd	0.00073	U	0.00073	0.0050	
Ba	0.0016	U	0.0016	0.020	
As	0.0033	U	0.0033	0.010	
Ag	0.0012	U	0.0012	0.010	
Se	0.0042	U	0.0042	0.040	

TCLP SPLPE Leachate Blank - Batch: 600-16250

Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID:

LB 600-16122/1-G

Solid

Analysis Batch: 600-16296

Instrument ID: TJA ICP 61E

Client Matrix:

Prep Batch: 600-16250

Lab File ID: J061109

Dilution:

1.0

Units: mg/L

Initial Weight/Volume: 50 mL

Date Analyzed:

06/11/2009 1057

Date Prepared:

06/10/2009 1555

Final Weight/Volume: 50 mL

Date Leached:

06/08/2009 1630

Leachate Batch: 600-16122

Analyte	Result	Qual	MDL	RL	
рв	0.0029	U	0.0029	0.010	Whole word with the
Cr	0.0016	U	0.0016	0.010	
Cd	0.00073	U	0.00073	0.0050	
Ва	0.0061	J	0.0016	0.020	
As	0.0066	J	0.0033	0.010	
Ag	0.0012	U	0.0012	0.010	
Se	0.0044	J	0.0042	0.040	

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16250

Method: 6010B Preparation: 3010A

Client Matrix:

Dilution:

Lab Sample ID: LCS 600-16250/2-A

Water

1.0

Date Analyzed: 06/11/2009 1053 Date Prepared: 06/10/2009 1555

Analysis Batch: 600-16296

Prep Batch: 600-16250

Units: mg/L

Instrument ID: TJA ICP 61E Lab File ID: J061109

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pb	1.00	1.00	100	80 - 120	nazir ribonan ji kakhinin dirikto oribiliminishti bibinaa nazirgan karasaan kaztub t
Cr	1.00	0.981	98	80 - 120	
Cd	0.500	0.494	99	80 - 120	
Ва	1.00	1.01	101	80 - 120	
As	1.00	1.01	101	80 - 120	
Ag	0.500	0.490	98	80 - 120	
Se	1.00	1.00	100	80 - 120	

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16195

Method: 7470A Preparation: 7470A

Lab Sample ID: MB 600-16195/7-A Client Matrix:

Water

Dilution:

1.0

Date Analyzed: Date Prepared:

06/10/2009 0900

06/10/2009 1431

Analysis Batch: 600-16247 Prep Batch: 600-16195

Units: ug/L

Instrument ID: Perkin Elmer FIMS-100

Lab File ID: N/A

Initial Weight/Volume:

40 mL

Final Weight/Volume:

40 mL

Analyte

Result

Qual

MDL

RL

Mercury

0.021

U

0.021

0.20

TCLP SPLPE Leachate Blank - Batch: 600-16195

Method: 7470A Preparation: 7470A

TCLP

Client Matrix:

Lab Sample ID: LB 600-16122/1-F

Solid

1.0 06/10/2009 1501

Date Analyzed: Date Prepared:

06/10/2009 0900

Date Leached:

06/08/2009 1630

Analysis Batch: 600-16247

Units: ug/L

Prep Batch: 600-16195

Instrument ID: Perkin Elmer FIMS-100

Lab File ID: N/A

Initial Weight/Volume:

40 mL

Final Weight/Volume:

40 mL

Analyte

Dilution:

Result

Qual

MDL

RL

Mercury

0.021

Leachate Batch: 600-16122

U

0.021

0.20

Lab Control Sample - Batch: 600-16195

Method: 7470A Preparation: 7470A

Lab Sample ID:

LCS 600-16195/8-A

Client Matrix:

Dilution:

Water

Date Analyzed: Date Prepared:

1.0

06/10/2009 1433 06/10/2009 0900

Analysis Batch: 600-16247

Prep Batch: 600-16195

Units: ug/L

Instrument ID: Perkin Elmer FIMS-100

Lab File ID: N/A

50 ml

Initial Weight/Volume: Final Weight/Volume:

50 mL

Analyte

Spike Amount

Result

% Rec.

Limit

Qual

Mercury

3.00

2.77

92

80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Houston

Page 18 of 28

Client: Noltex LLC Job Number: 600-11197-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 600-16195

Method: 7470A Preparation: 7470A

TCLP

MS Lab Sample ID:

600-11197-4

Analysis Batch: 600-16247

Instrument ID:

Perkin Elmer FIMS-100

Client Matrix:

Solid

Dilution:

1.0

Prep Batch: 600-16195

Lab File ID:

N/A

Date Analyzed:

Initial Weight/Volume:

40 mL

Date Prepared:

06/10/2009 1509 06/10/2009 0900

Final Weight/Volume: 40 mL

Date Leached:

06/08/2009 1630

Leachate Batch: 600-16122

MSD Lab Sample ID: Client Matrix:

600-11197-4

Analysis Batch: 600-16247

Instrument ID: Perkin Elmer FIMS-100

Solid

Lab File ID: N/A

Dilution: Date Analyzed: 1.0

Prep Batch: 600-16195

Initial Weight/Volume:

40 mL

Date Prepared:

06/10/2009 1511

06/10/2009 0900

Leachate Batch: 600-16122

Final Weight/Volume: 40 mL

Date Leached:

06/08/2009 1630

% Rec.

Analyte

MS MSD 95 95

RPD **RPD Limit**

0

MS Qual MSD Qual

Limit 75 - 125

Mercury

Method: 7470A

Preparation: 7470A

TCLP

Lab Sample ID:

600-11197-4

20

Client Matrix:

Duplicate - Batch: 600-16195

Analysis Batch: 600-16247

RPD

NC

Instrument ID: Perkin Elmer FIMS-100

Dilution:

Solid

Prep Batch: 600-16195

Lab File ID: N/A

Date Analyzed:

1.0 06/10/2009 1508 Units: ug/L

Initial Weight/Volume: Final Weight/Volume:

40 mL

Date Prepared: Date Leached:

06/10/2009 0900

40 mL

06/08/2009 1630

Leachate Batch: 600-16122

Sample Result/Qual

U

Analyte Mercury

0.021

Result

0.021

Limit

20

Qual

U

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Houston

Page 19 of 28

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16066

Method: 7.4.4 Preparation: 7.3.4

Lab Sample ID: MB 600-16066/1-A

Client Matrix:

Solid

Dilution:

Date Analyzed: Date Prepared:

1.0

06/09/2009 1223 06/08/2009 1220

Analysis Batch: 600-16165

Prep Batch: 600-16066

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

10 mL

Final Weight/Volume:

250 mL

Analyte

Result

Qual

MDL

RL

Sulfide, Reactive

14

U

14

50

Lab Control Sample - Batch: 600-16066

Method: 7.4.4 Preparation: 7.3.4

Lab Sample ID: LCS 600-16066/2-A

Client Matrix:

Solid

Dilution:

1.0

Date Analyzed: Date Prepared:

06/09/2009 1223 06/08/2009 1220 Analysis Batch: 600-16165 Prep Batch: 600-16066

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: 10 mL

Final Weight/Volume:

250 mL

Analyte

Spike Amount

Result

% Rec.

Limit

Sulfide, Reactive

1780

1140

64

0 - 100

Qual

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Houston

Page 20 of 28

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16066

Method: 9012 Preparation: 7.3.3

Lab Sample ID: MB 600-16066/1-A

Client Matrix:

Solid

Dilution:

1.0

Date Analyzed: Date Prepared:

06/09/2009 1301

06/08/2009 1220

Analysis Batch: 600-16157 Prep Batch: 600-16066

Units: ug/Kg

Instrument ID: WC05 Lachat-1

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

250 mL

RL Analyte Result Qual MDL Cyanide, Reactive 18 18 250

Lab Control Sample - Batch: 600-16066

Method: 9012 Preparation: 7.3.3

Lab Sample ID: LCS 600-16066/2-A

Client Matrix:

Solid

Dilution:

20

Date Analyzed: Date Prepared:

06/09/2009 1301

06/08/2009 1220

Analysis Batch: 600-16157 Prep Batch: 600-16066

Units: ug/Kg

Instrument ID: WC05 Lachat-1

Lab File ID: N/A

Initial Weight/Volume: 10 mL

Final Weight/Volume: 250 mL

Analyte Spike Amount % Rec. Limit Qual Result Cyanide, Reactive 1000000 57400 6 0 - 100

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16015

Method: 9045C Preparation: N/A

Lab Sample ID: LCS 600-16015/26

Client Matrix: Dilution:

Analyte

рΗ

Solid 1.0

06/05/2009 1020 Date Analyzed:

Date Prepared: N/A Analysis Batch: 600-16015

Prep Batch: N/A

Units: SU

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume: 50 mL

Spike Amount Result % Rec. Limit Qual 7.00 7.010 100 99 - 101

Duplicate - Batch: 600-16015

Method: 9045C Preparation: N/A

Lab Sample ID:

600-11197-4

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 06/05/2009 1020

Date Prepared: N/A Analysis Batch: 600-16015

Prep Batch: N/A

Units: SU

Instrument ID: No Equipment Assigned

Lab File ID: N/A Initial Weight/Volume:

Final Weight/Volume: 20 mL

RPD Analyte Result Limit Qual Sample Result/Qual 7.400 рΗ 7.39 0 1

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16133

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-16133/1

Instrument ID: No Equipment Assigned

Client Matrix:

Solid

Analysis Batch: 600-16133

Dilution:

1.0

N/A

Prep Batch: N/A

Lab File ID: N/A

Initial Weight/Volume: 1.0090 g

Date Analyzed:

06/08/2009 1630

Units: BTU/lb

Final Weight/Volume:

1.0 mL

Date Prepared:

Result

Qual

RL

Analyte

Ū

500

RL

BTU

500

500

Lab Control Sample - Batch: 600-16133

Method: D240-87 Preparation: N/A

Lab Sample ID: LCS 600-16133/2

Client Matrix:

Solid

Analysis Batch: 600-16133

Lab File ID:

Instrument ID: No Equipment Assigned

Dilution:

Prep Batch: N/A

N/A Initial Weight/Volume:

1.0026 g

Date Analyzed:

1.0 06/08/2009 1630 Units: BTU/lb

Final Weight/Volume:

1.0 mL

Date Prepared: N/A

Spike Amount

Result

Limit

Qual

Analyte BTU

11400

11000

% Rec. 97

90 - 110

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16176

Method: D92 Preparation: N/A

Lab Sample ID: MB 600-16176/1

Client Matrix:

Solid

Dilution:

Date Analyzed:

1.0

06/09/2009 1145

Date Prepared: N/A Analysis Batch: 600-16176

Prep Batch: N/A

Units: Degrees F

Instrument ID: No Equipment Assigned

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

1.0 mL

Analyte Result Qual RL RL Flashpoint >186 1.0 1.0

Lab Control Sample - Batch: 600-16176

Method: D92 Preparation: N/A

Lab Sample ID: LCS 600-16176/2

Client Matrix:

Solid 1.0

Dilution: Date Analyzed:

06/09/2009 1145

Date Prepared:

Analysis Batch: 600-16176

Prep Batch: N/A

Units: Degrees F

Instrument ID: No Equipment Assigned

Lab File ID: N/A Initial Weight/Volume:

Final Weight/Volume:

Analyte Spike Amount Result % Rec. Limit Qual Flashpoint 81.0 82.0 101 96.91 - 103.09

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-11197-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Job Narrative 600-J11197-1

Comments

All three samples received were composited into one sample, and analysis was performed on the composite, per client request.

Receipt

All samples were received in good condition within temperature requirements.

06/11/2009

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TAL-4124 (1007) Cilient Nû I TEX LLC Address 12220 Strang Rd		Project I	Manag Ou ne Nui	er S	กก) d l Code	I/ (Numl	ber				ъ,		····	600-1	- 1197-A	116	79		 1	259)9 	[1 (90] []
City State Zip Coo	^{de} 57/	Site Con	tact					Contac						FA 15	more	spa 2	(Atta	nee	st if ded)		age	***************************************	of	
Contract/Purchase Order/Quote No. Sample I.D. No. and Description				Mat	Τ-		85	Pr	esen	ers &	}	TCLP-Volati	TCLP-Semival	1047- MICHA	Kactivit	COCCOSIN	Antan	7					ruction: of Recei	
(Containers for each sample may be combined on one line) Me OH Feed Filter 1 Me OH Feed Filter 2	1 /2 0	1:30	Ali	Sad	Soil		Unpres	H2SO4	HCI HCI	NaOH	NaO NaO	7		7	N K		7	1						
);35):40												7	1	1	7							
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Poison B	Unknown	1	•	Dispos m To (7 0/6	nosal	By La	<u> </u>	Arch	ning F			1	onths				ed if samples	are reta	uined	,
Turn Around Time Required 24 Hours		☐ Othi	er		Time	Men	_	QC R		ments	(Spec		L				Onais	IOI	iger tr	nan 1 m	Date)	Til	me	
2. Relinquisted By 3. Relinquisted By		Date 5 2 Date		9	11.7 Time 13	10a	2		geiyed ceived	<i>LC</i>	2		1									9 VI 1	; Z2 me 	
Comments DISTRIBUTION: WHITE - Returned to Client with Report: CA		<u></u>						o. net	veu	y												1"		

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-11197-1

List Source: TestAmerica Houston

Login Number: 11197 Creator: Claunch, Todd F

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/20/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3425

Expiration Date 7/15/2011

Generator: CES Environmental Services - Port Arthur

Address: 2420 S. Gulfway Drive

Port Arthur, TX 77640

Waste Information

Name of Waste: Non-Haz Alcohol containing water from recycling of gasoline

TCEQ Waste Code #: 00081011

Container Type:

Detailed Description of Process Generating Waste:

Low flash water containing alcohols from recycling of gasoline and water mixtures

Color: Varies

Odor: Alcohol

pH: 3-11

Physical State:

Incompatibilities: Strong oxidizers, ignition sources

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



*** >

Or Zhu

U.S. EPA ID N	ental Services - gs Road, Houst 176-1460 Fax: 08950461 olid Waste Per	on, TX 77021 (713) 676-167 ISWR Number	76 : 30900	CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585						
SECTION 1:	Generator I	nformation								
Company:	Port Arthur	Chemical and	<u>Environmen</u>	tal Services,	LLC					
Address:	2420 S Gulf	way Dr								
City:	Port Arthur			State:	TX		Zip:		77641	
Contact:	Matt Bowm	an			_ Title:		President			
Phone Num	ber:	713-676-14	60		_ Fax Numbe	er:	713-676-1460			
24/hr Phone	e Number:	713-826-13	29		<u> </u>				-	
US EPA ID N	lo:	TXR000079	307							
State ID No:	:				SIC Code:					
SECTION 2: Company: Address:	Billing Infor	mation -	Same as	s Above						
City:				State:			Zip:			
Contact:					Title:					
Phone Num	ber:				Fax Numbe	er:				
Name of Wa	aste: scription of	Process Gene	cohol contain	2:	-	Re	young of a	fulling of	end times	
Physical Sta	ite: 🗸	ing alcohols for Liquid Solid	om . Nasri pre	Sludge Filter Cak			Powder Combination			
Color:	varies			_	Ouor.		alconor			
Specific Gra	vity (water=	:1):	0.9-1	***			Density: 7.5-8.34	lbs/gal		
Does this m	aterial cont	ain any total	phenolic con	pounds?		Yes	✓ No			
Does this m	aterial cont	ain any para	substituted p	henolic com	npounds?		☐ Yes ☑	No No		
							51, Subpart FF) cility is one of the follo	☐ Yes owing:	√ No	
2812			16 283			822			2834	
2835	283	6 28	41 284	42 284	3 2	844	2851 286	2865	2869	
2873	287	4 28	76 287	79 289	1 2	892	2893 289	2899	2911	
3312	495	3 49	59 95:	11						
Layers:	☑ Sìr	ngle-phase	☐ Mu	ılti-phase						
Container T	ype:	Drum	Tote [☑ Truck [Other (exp	plaiı	n)			
Frequency:	☑ Weekl	y 🗌 Month	ly 🗌 Yearl		Time					

Is this a USEPA If "Yes", then If "Yes", Is in Characteristic	please comp t:	Diete, sign and o	le)	D002 (Co	5 D006	nts Form atta	active)	□ D00s)
Is this an "F" o		d waste or mix t ALL applicab		?	☐ Yes	. [2] No		
40 CFR 261.33	B(e) or (f)?	uct or spill cle	□ Ye	_	a "U" or "P" wa	aste code u	nder		
Texas State W				0008	81011	···	-		
Proper US DO Class:	T Shipping IA	Name: UN/NA:	Non-RCRA/N	Non DOT r	egulated waste NA	water (per RQ:	49 CFR 173.15 NA	50 (e)(2))	
Flash P	Point	pi	1	Reac	tive Sulfides	Reactive	e Cyanides	So	lids
<140 d	leg F	3-1	1	NA	<u>mg/l</u>	NA	mg/l	<2	%
Oil & G	rease	TO	C		Zinc	Co	pper	Ni	ckel
<1500	mg/l	NA	mg/l	NA	<u>mg/l</u>	NA	mg/l	NA	mg/l
SECTION 4: P		Chemical Data				CONCEN	TRATOIN		UNITS
The		sts of the follo		ıls	 		acceptable		or %
1116	waste collsi	Water	will march	113			100		%
	N/A	ethanol/Ethan	nl		 		24		% %
		Dirt, Sediment	<u> </u>		 		:2		/ %
		z g ocamient			 				1 -70
·,,									1

COMPONENTS TABLE	CONCENTRATOR	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	76-100	%
Methanol/Ethanol	<24	%
Dirt, Sediment	<2	%
	The second secon	
<u> </u>		

		aste requires the use of special protective equip	oment, please explain.	
	uments, note	upporting Documents s, data and/or analysis attached to this form as MSDS	part of the waste	
Please list	: Incompatib ALL incompat dizers, ignition	ibilities (if any):		
Laboratory	analysis of tl	s Knowledge Documentation he hazardous waste characteristics, listed belowing generator knowledge:	v, WAS NOT PERFORMED	
TCLP Meta	ls:	x		
TCLP Volat	iles:	x		
TCLP Semi-	-Volatiles:	x		
Reactivity:		x		
Corrosivity	′:	x		
Ignitability	:	x		
CECTION A	14/4- DI	A Classification Under 40 CEP 427 (Detaining to Pro	Troatmont Boquiromants f	or Controlized Wasta Treatment
Facilities)	waste keceip	ot Classification Under 40 CFR 437 (Prtaining to Pre	-ireatment Requirements i	or Centralized Waste Treatment
racincies		rial a wastewater or wastewater sludge? complete this section.	✓ YES	□ NO
	PLEASE CHE	CK THE APPROPRIATE BOX. IF NO APPROPRIATE C	ATEGORY, GO TO THE NEXT	PAGE.
Metals Sub [[[[[[[[Metal finish Chromate v Air pollution Spent anod Incineration Waste liqui Cyanide-con Waste acids Cleaning, ri Vibratory d	roplating baths and/or sludges ning rinse water and sludges vastes n control blow down water and sludges izing solutions n wastewaters		erations
Oils Subcat	Lubricants Coolants Contaminat Used petro Oil spill clea	mulsions or mixtures ted groundwater clean-up from petroleum sources leum products an-up		

Ş.

☐ Interceptor wastes
Uff-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources
☐ Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
☐ Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
☐ Wastewater from paint washes
☐ Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
Michael 37,3 mg/2
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
CECTION 11. Conceptorio Contification
SECTION 11: Generator's Certification The information particular and leave in a based on the information beautiful date.
The information contained herein is based on generator knowledge and/or analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
1. 1.
Authorized Signature:
Printed Name/Title: Joy Baker, Sale
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Polyun Thy

V.



☐ Subcategory A

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$0.09/gal +drans+fsc
2. Contamination Limit (maximum limit before surchages apply):
2 10000 TOC, C2% solids, metals treet to permit levels
3. Surcharge Pricing:
- after 10,000 TOC surcharge per std rate sheet up to 0.25/gal total for TOC (Surcharge + disposed) - Solido >2% Surcharge 80.01/gal/% in excess of 2% - other surcharges per vate sheet
4. Special Testing Requirements:
metals, toc, flompt, prend, treatability
5. Treatment and Handling Protocol:
Sub Cat C WW
6. Treated Wastewater Discharge Subcategory:

Subcategory C

☐ Subcategory B



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Prod	7. Tests for Product Recovered/Recycled (if applicable):							
					······································			
8. Management	for Product Reco	overed/Recycled	l (if applicable)					

Material Safety Data Sheet Ethyl alcohol

ACC# 91467

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethyl alcohol

Catalog Numbers: A997-1GAL, A997-1PT, A997-55GAL, A997-5GAL

Synonyms: Ethyl alcohol; Ethyl hydroxide; Fermentation alcohol; Grain alcohol; Methylcarbinol.

Company Identification:

Fisher Scientific

1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100 Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
64-17-5	Ethyl alcohol	95-99	200-578-6
7732-18-5	Water	1-5	231-791-2

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless clear liquid. Flash Point: 16.6 deg C.

Warning! Causes severe eye irritation. **Flammable liquid and vapor.** Causes respiratory tract irritation. This substance has caused adverse reproductive and fetal effects in humans. May cause central nervous system depression. May cause liver, kidney and heart damage. Causes moderate skin irritation.

Target Organs: Kidneys, heart, central nervous system, liver.

Potential Health Effects

Eye: Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

Skin: Causes moderate skin irritation. May cause cyanosis of the extremities.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

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Chronic: May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Get medical aid. Gently lift eyelids and flush continuously with wate r.

Skin: Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water. **Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous sytem diseases may be at increased risk from exposure to this substance.

Antidote: Replace fluid and electrolytes.

Section 5 - Fire Fighting Measures

General Information: Replace fluid and electrolytes. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Flash Point: 16.6 deg C (61.88 deg F)

Autoignition Temperature: 363 deg C (685.40 deg F)

Explosion Limits, Lower: 3.3 vol %

Upper: 19.0 vol %

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid

7/14/2009

contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

			The state of the s
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m3 TWA 3300 ppm IDLH	1000 ppm TWA; 1900 mg/m3 TWA
Water	none listed	none listed	none listed

OSHA Vacated PELs: Ethyl alcohol: 1000 ppm TWA; 1900 mg/m3 TWA Water: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid Appearance: colorless

Odor: Mild, rather pleasant, like wine or whis

pH: Not available.

Vapor Pressure: 59.3 mm Hg @ 20 deg C

Vapor Density: 1.59

Evaporation Rate:Not available. **Viscosity:** 1.200 cP @ 20 deg C

Boiling Point: 78 deg C

Freezing/Melting Point:-114.1 deg C Decomposition Temperature:Not available.

Solubility: Miscible.

Specific Gravity/Density:0.790 @ 20°C

Molecular Formula:C2H5OH Molecular Weight:46.0414

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat, oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tertbutoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

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RTECS#:
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CAS# 64-17-5: KQ6300000 **CAS#** 7732-18-5: ZC0110000

LD50/LC50:

CAS# 64-17-5:

Draize test, rabbit, eye: 500 mg Severe; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, mouse: LC50 = 39 gm/m3/4H; Inhalation, rat: LC50 = 20000 ppm/10H; Oral, mouse: LD50 = 3450 mg/kg;

Oral, mouse: LD50 = 3450 mg/kg; Oral, rabbit: LD50 = 6300 mg/kg; Oral, rat: LD50 = 7060 mg/kg; Oral, rat: LD50 = 9000 mg/kg;

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

Carcinogenicity:

CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

Teratogenicity: Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception) Effects on Newborn - Apgar score (human only) and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence.

Reproductive Effects: Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) premating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated).

Mutagenicity: DNA Inhibition: Human, Lymphocyte = 220 mmol/L.; Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Fibroblast = 12000 ppm.;

Cytogenetic Analysis: Human, Leukocyte = 1 pph/72H (Continuous).; Sister Chromatid Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous).

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3° CFish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified)Bacteria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min; Microtox test When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.

Environmental: When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.

Physical: No information available. **Other:** No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	ETHANOL	No information available.
Hazard Class:	3	
UN Number:	UN1170	
Packing Group:	II	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 64-17-5 is listed on the TSCA inventory. CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

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Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPO.

SARA Codes

CAS # 64-17-5: immediate, delayed, fire.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 64-17-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols:

F

Risk Phrases:

R 11 Highly flammable.

Safety Phrases:

- S 16 Keep away from sources of ignition No smoking.
- S 33 Take precautionary measures against static discharges.
- S 7 Keep container tightly closed.
- S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)

CAS# 64-17-5: 0

CAS# 7732-18-5: No information available.

Canada - DSL/NDSL

CAS# 64-17-5 is listed on Canada's DSL List.

CAS# 7732-18-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

7/14/2009

CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 3/08/2000 Revision #8 Date: 9/26/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet Ethanol, Absolute

ACC# 89308

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethanol, Absolute Catalog Numbers: NC9602322

Synonyms: Ethyl Alcohol; Ethyl Alcohol Anhydrous; Ethyl Hydrate; Ethyl Hydroxide; Fermentation

Alcohol; Grain Alcohol; Methylcarbinol; Molasses Alcohol; Spirits of Wine.

Company Identification:

Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410

For information, call: 201-796-7100 Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
64-17-5	Ethanol	ca.100	200-578-6

Section 3 - H Matt said these

EMERGE

Appearance: colorless clear liquid. Flash Poi **Warning!** Causes severe eye irritation. **F** irritation. This substance has caused advers central nervous system depression. May ca skin irritation.

Target Organs: Kidneys, heart, central ne

iratory tract . May cause s moderate

Potential Health Effects

Eye: Causes severe eye irritation. May ca___ conjunctivitis and corneal damage.

e chemical

Skin: Causes moderate skin irritation. May cause cyanosis of the extremities.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

Chronic: May cause reproductive and fetal effects. Laboratory experiments have resulted in

mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Get medical aid. Gently lift eyelids and flush continuously with wate r.

Skin: Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water. **Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous sytem diseases may be at increased risk from exposure to this substance.

Antidote: None reported.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Flash Point: 16.6 deg C (61.88 deg F)

Autoignition Temperature: 363 deg C (685.40 deg F)

Explosion Limits, Lower: 3.3 vol %

Upper: 19.0 vol %

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or

vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethanol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m3 TWA 3300 ppm IDLH	1000 ppm TWA; 1900 mg/m3 TWA

OSHA Vacated PELs: Ethanol: 1000 ppm TWA; 1900 mg/m3 TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid Appearance: colorless

Odor: Mild, rather pleasant, like wine or whis

pH: Not available.

Vapor Pressure: 59.3 mm Hg @ 20 deg C

Vapor Density: 1.59

Evaporation Rate:Not available. **Viscosity:** 1.200 cP @ 20 deg C

Boiling Point: 78 deg C

Freezing/Melting Point:-114.1 deg C Decomposition Temperature:Not available.

Solubility: Miscible.

Specific Gravity/Density:0.790 @ 20°C

Molecular Formula:C2H5OH Molecular Weight:46.0414

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat, oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 64-17-5: KQ6300000

LD50/LC50:

CAS# 64-17-5:

Draize test, rabbit, eye: 500 mg Severe;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 20 mg/24H Moderate;
Inhalation, mouse: LC50 = 39 gm/m3/4H;
Inhalation, rat: LC50 = 20000 ppm/10H;
Oral, mouse: LD50 = 3450 mg/kg;
Oral, rabbit: LD50 = 6300 mg/kg;
Oral, rat: LD50 = 7060 mg/kg;
Oral, rat: LD50 = 9000 mg/kg;

Carcinogenicity:

CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

Teratogenicity: Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception) Effects on Newborn - Apgar score (human only) and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence.

Reproductive Effects: Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) premating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated).

Neurotoxicity: No information available.

Mutagenicity: DNA Inhibition: Human, Lymphocyte = 220 mmol/L.; Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Fibroblast = 12000 ppm.; Cytogenetic Analysis: Human, Leukocyte = 1 pph/72H (Continuous).; Sister Chromatid Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous).

Other Studies: Standard Draize Test(Skin, rabbit) = 20 mg/24H (Moderate) Standard Draize Test: Administration into the eye (rabbit) = 500 mg (Severe).

Section 12 - Ecological Information

Ecotoxicity: Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3° CFish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified)Bacteria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min; Microtox test When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.

Environmental: When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.

Physical: No information available. **Other:** No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not reviewed.	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 64-17-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 64-17-5: acute, chronic, flammable.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 64-17-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

WARNING: This product contains Ethanol, a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

F

Risk Phrases:

R 11 Highly flammable.

Safety Phrases:

- S 16 Keep away from sources of ignition No smoking.
- S 33 Take precautionary measures against static discharges.
- S 7 Keep container tightly closed.
- S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)

CAS# 64-17-5: 0

Canada - DSL/NDSL

CAS# 64-17-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of B2, D2A.

Canadian Ingredient Disclosure List

CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 7/27/1999 **Revision #4 Date:** 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Methyl Alcohol, Reagent ACS, 99.8% (GC)

ACC# 95294

Section 1 - Chemical Product and Company Identification

MSDS Name: Methyl Alcohol, Reagent ACS, 99.8% (GC)

Catalog Numbers: AC423950000, AC423950010, AC423950020, AC423955000, AC9541632.

AC423952

Synonyms: Carbinol; Methanol; Methyl hydroxide; Monohydroxymethane; Pyroxylic spirit; Wood

alcohol; Wood naptha; Wood spirit; Monohydroxymethane; Methyl hydrate.

Company Identification:

Acros Organics N.V. One Reagent Lane Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
67-56-1	Methyl alcohol	99+	200-659-6

Hazard Symbols: TF

Risk Phrases: 11 23/24/25 39/23/24/25

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear, colorless. Flash Point: 11 deg C. Poison! Cannot be made non-poisonous. Causes eye and skin irritation. May be absorbed through intact skin. This substance has caused adverse reproductive and fetal effects in animals. Danger! Flammable liquid and vapor. Harmful if inhaled. May be fatal or cause blindness if swallowed. May cause central nervous system depression. May cause digestive tract irritation with nausea, vomiting, and diarrhea. Causes respiratory tract irritation. May cause liver, kidney and heart damage.

Target Organs: Kidneys, heart, central nervous system, liver, eyes.

Potential Health Effects

Eye: Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause painful sensitization to light.

Skin: Causes moderate skin irritation. May be absorbed through the skin in harmful amounts.

Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.

Ingestion: May be fatal or cause blindness if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause cardiopulmonary system effects.

Inhalation: Harmful if inhaled. May cause adverse central nervous system effects including

headache, convulsions, and possible death. May cause visual impairment and possible permanent blindness. Causes irritation of the mucous membrane.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Chronic exposure may cause reproductive disorders and teratogenic effects. Laboratory experiments have resulted in mutagenic effects. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Effects may be delayed. Ethanol may inhibit methanol metabolism.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May be ignited by heat, sparks, and flame.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. For large fires, use water spray, fog or alcohol-resistant foam. Do NOT use straight streams of water.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Scoop up with a nonsparking tool, then place into a suitable container for disposal. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. **Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Keep containers tightly closed. Do not store in aluminum or lead containers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use only under a chemical fume hood.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
	200 ppm TWA; 250 ppm STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m3 TWA 6000 ppm IDLH	200 ppm TWA; 260 mg/m3 TWA

OSHA Vacated PELs: Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL; 325

mg/m3 STEL

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI

Z88.2 requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear, colorless **Odor:** alcohol-like - weak odor

pH: Not available.

Vapor Pressure: 128 mm Hg @ 20 deg C

Vapor Density: 1.11 (Air=1) Evaporation Rate:5.2 (Ether=1) Viscosity: 0.55 cP 20 deg C

Boiling Point: 64.7 deg C @ 760.00mm Hg

Freezing/Melting Point:-98 deg C

Autoignition Temperature: 464 deg C (867.20 deg F)

Flash Point: 11 deg C (51.80 deg F)

Decomposition Temperature:Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 3; Reactivity: 0

Explosion Limits, Lower:6.0 vol %

Upper: 36.00 vol % **Solubility:** miscible

Specific Gravity/Density:.7910g/cm3

Molecular Formula:CH40 Molecular Weight:32.04

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures, incompatible materials, ignition sources, oxidizers. Incompatibilities with Other Materials: Acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, muriatic acid, phosphoric acid), acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), isocyanates (e.g. methyl isocyanate), nitrides (e.g. potassium nitride, sodium nitride), peroxides and hydroperoxides (organic, e.g. acetyl peroxide, benzoyl peroxide, butyl peroxide, methyl ethyl ketone peroxide), epoxides (e.g. butyl glycidyl ether), Oxidants (such as barium perchlorate, bromine, chlorine, hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite)., Active metals (such as potassium and magnesium)., acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbontetrachloride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl zinc, nitric acid, potassium-tert-butoxide, chloroform + hydroxide, water reactive substances (e.g. acetic anyhdride, alkyl aluminum chloride, calcium carbide, ethyl dichlorosilane).

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, formaldehyde.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 67-56-1: PC1400000

LD50/LC50: CAS# 67-56-1:

Draize test, rabbit, eye: 40 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 20 mg/24H Moderate;

Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse: LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50 = 5628 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg;

Carcinogenicity:

CAS# 67-56-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: Methanol has been shown to produce fetotoxicity in the embr yo or fetus of laboratory animals. Specific developmenta I abnormalities include cardiovascular, musculoskeletal, and urogenital systems.

Teratogenicity: Effects on Newborn: Behaviorial, Oral, rat: TDLo=7500 mg/kg (female 17-19 days after conception). Effects on Embryo or Fetus: Fetotoxicity, Inhalation, rat: TCLo=10000

ppm/7러 (female 7-15 days after conception). Specific Developmental Abnormalities: Ċardiovascular, Musculoskeletal, Urogenital, Inhalation, rat: TCLo=20000 ppm/7H (7-14 days after conception).

Reproductive Effects: Paternal Effects: Spermatogenesis: Intraperitoneal, mouse TDLo=5 g/kg (male 5 days pre-mating). Fertility: Oral, rat: TDLo = 35295 mg/kg (female 1-15 days after conception). Paternal Effects: Testes, Epididymis, Sperm duct: Oral, rat: TDLo = 200 ppm/20H (male 78 weeks pre-mating).

Neurotoxicity: No information available.

Mutagenicity: DNA inhibition: Human Lymphocyte = 300 mmol/L. DNA damage: Oral, rat = 10 umol/kg. Mutation in microorganisms: Mouse Lymphocyte = 7900 mg/L. Cytogenetic analysis: Oral, mouse = 1 gm/kg.

Other Studies: Standard Draize Test(Skin, rabbit) = 20 mg/24H (Moderate) S tandard Draize Test: Administration into the eye (rabbit) = 40 mg (Moderate). Standard Draize test: Administration into the eye (rabbit) = 100 mg/24H (Moderate).

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: 29.4 g/L; 96 Hr; LC50 (unspecified) Goldfish: 250 ppm; 11 Hr; resulted in death Rainbow trout: 8000 mg/L; 48 Hr; LC50 (unspecified) Rainbow trout: LC50 = 13-68 mg/L; 96 Hr.; 12 degrees C Fathead Minnow: LC50 = 29400 mg/L; 96 Hr.; 25 degrees C, pH 7.63 Rainbow trout: LC50 = 8000 mg/L; 48 Hr.; Unspecified ria: Phytobacterium phosphoreum: EC50 = 51,000-320,000 mg/L; 30 minutes; Microtox test No data available.

Environmental: Dangerous to aquatic life in high concentrations. Aquatic toxicity rating: TLm 96>1000 ppm. May be dangerous if it enters water intakes. Methyl alcohol is expected to biodegrade in soil and water very rapidly. This product will show high soil mobility and will be degraded from the ambient atmosphere by the reaction with photochemically produced hyroxyl radicals with an estimated half-life of 17.8 days. Bioconcentration factor for fish (golden ide) < 10. Based on a log Kow of -0.77, the BCF value for methanol can be estimated to be 0.2.

Physical: No information available.

Other: None.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 67-56-1: waste number U154; (Ignitable waste).

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	METHANOL				METHANOL
Hazard Class:	3				3(6.1)
UN Number:	UN1230				UN1230
Packing Group:	II				II
Additional Info:					FLASHPOINT

http://avogadro.chem.iastate.edu/MSDS/methanol.htm

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Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 67-56-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 67-56-1: acute, flammable.

Section 313

This material contains Methyl alcohol (CAS# 67-56-1, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 67-56-1 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols:

TF

Risk Phrases:

R 11 Highly flammable.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 39/23/24/25 Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 16 Keep away from sources of ignition - No

7/14/2009

smoking.

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 7 Keep container tightly closed.

WGK (Water Danger/Protection)

CAS# 67-56-1: 1

Canada

CAS# 67-56-1 is listed on Canada's DSL List. CAS# 67-56-1 is listed on Canada's DSL List. This product has a WHMIS classification of B2, D1A, D2B. CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

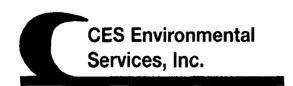
CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m3);Ski n OEL-AUSTRALIA:TWA 200 ppm (260 mg/m3);STEL 250 ppm;Skin OEL-BELGIU M:TWA 200 ppm (262 mg/m3);STEL 250 ppm;Skin OEL-CZECHOSLOVAKIA:TWA 10 0 mg/m3;STEL 500 mg/m3 OEL-DENMARK:TWA 200 ppm (260 mg/m3);Skin OEL-FINLAND:TWA 200 ppm (260 mg/m3);STEL 250 ppm;Skin OEL-FRANCE:TWA 200 ppm (260 mg/m3);STEL 1000 ppm (1300 mg/m3) OEL-GERMANY:TWA 200 ppm (2 60 mg/m3);Skin OEL-HUNGARY:TWA 50 mg/m3;STEL 100 mg/m3;Skin JAN9 OEL -JAPAN:TWA 200 ppm (260 mg/m3);Skin OEL-THE NETHERLANDS:TWA 200 ppm (260 mg/m3);Skin OEL-THE PHILIPPINES:TWA 200 ppm (260 mg/m3) OEL-POLA ND:TWA 100 mg/m3 OEL-RUSSIA:TWA 200 ppm;STEL 5 mg/m3;Skin OEL-SWEDEN :TWA 200 ppm (250 mg/m3);STEL 250 ppm (350 mg/m3);Skin OEL-SWITZERLAN D:TWA 200 ppm (260 mg/m3);STEL 400 ppm;Skin OEL-THAILAND:TWA 200 ppm (260 mg/m3) OEL-TURKEY:TWA 200 ppm (260 mg/m3) OEL-UNITED KINGDOM:TW A 200 ppm (260 mg/m3);STEL 250 ppm;Skin OEL IN BULGARIA, COLOMBIA, JO RDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM ch eck ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 7/21/1999 **Revision #4 Date:** 3/14/2001

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

3426 GATX (Hecorne) 76 8-4-09 LAD T-35



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/15/2009

Dear Ricardo Salias

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3426

Expiration Date 7/15/2011

Generator: GATX (Hearne)

Address: 1401 W. Brown St.

Hearne, TX 77859

Waste Information

Name of Waste: Petroleum Alkylates TCEQ Waste Code #: 99032191

Container Type:

Detailed Description of Process Generating Waste: Removal of heel prior to cleaning RCRA empty rail cars

Color: Clear

Odor: Mild

pH: Na

Physical State:

Incompatibilities: Please list ALL incompatibilities (if any)

Safety Related Data/Special Handling:

Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Houston ICh

CES Environmental services, Inc.

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SECTION 1: Ge	<u>erator</u>	Inform	ation										
Company: GAT	(Rail										_		
	W. Bro	own Stre	et										
City: Hea					State:	TX		Zip:				778	59
	do Sal					Title:							
Phone Number:		979-27	9-3481			Fax Nu	ımber:	979-279-	3020				
24/hr Phone Nur	iber:												
US EPA ID No:		TXD00	083520			40.010.0				<u> </u>			
State ID No:					326	43 SIC Co	de:	<u>NA</u>					
SECTION 2: Bill Company: C1 Address: Po	ATX Go:	(Her	in	Same as									
	XIX	·			State:	X		Zip:	$\frac{\Delta}{2}$	1859	7		
Contact:						Title:	_						
Phone Number:		•				_ Fax Nu	imber:						
SECTION 3: Ger	eral D	<u>escripti</u>	on of th	e Waste									
Name of Waste: Detailed Descrip	lon of		um Alky s Gene		ste	<u> </u>							
removal of heel p	r or to c	cleaning	RCRA e	mpty rail	cars								
Physical State:		Liquid Solid		<u> </u>	Sludge Filter Ca			Powder Combina	ation	-			
Color: clear					-	Odor:		mild					_
Specific Gravity	(vater	=1):	_		0.86	<u> 32</u>		Density:		7.189 lb:	s/gal		
Does this materi	e conf	tain any	total pl	nenolic co	mpound	s? 🗆	Yé	es 🖸] No				
Does this materi	e cont	ain any	рага вы	bstituted	phenolic	compou	nds?		Yes	☑ No	0		
Is the Waste sub Answer "Yes" if yo	jct to orwas	the ben te conta	izene w ins ben;	aste opera eneAND i	ation NES	SHAP? (40 code from) CFR your fa	Part 61, S acility is on	ubpart	FF) [Yes		lo
2812	2813		2816	2819			2822			2824	2833	28	34
2835	2836		2841	2842	284	13	2844			2861	2865		
2873	2874		2876	2879		91	2892	269	3	2896	2899		
3312	4953		4959	9511									
Layers: 🖸	Sir	ngle-pha	ıse .	☐ Mult	li-phase								
Container Type:	Q	Drum	□ T	ote 🛚	Truck [Other (explaiı	n)					
Frequency: \(\) \\ Quantity:	M∷ekly 	☑ Mo	nthly [Yearly 5	-	-Time							
ls this a USEPA '	'f azaro	dous Wa	aste" pe	r 40CFR	261.3?		Ye	s 🗸	No				

if "Yes", then ple	sse complete, sign	and date the U	Inderlying I	سا lazerdous Con	ت stituents Form attached	hereto	
If "Yes", Is it: Characteristic for		☐ D004 ☐ D010	□ D011	☐ D006	D003 (Reactive) D007 □ D008	□ D009	
Characteristic for	Toxic Organics:	0012 thru D04	is (piease i	ışt alı that appi	(y)		
Is this an "F" or "	(" Listed waste of ease list ALL app			☐ Ye	es 🗸 No		
40 CFR 261.33(e)			Yes 🔽	rry a "U" or " No	P" waste code under		
Texas State Was			^ ^	3219			_
Proper US DOT S	ipping Name:	Non RCRA	Non DOT F	Regulated Mate	erial		
Class: NA	UN/NA:	NA	PG:	NA	RQ: NA		
Flash Point		рĤ	Reacti	ve Sulfides	Reactive Cyanides	Soli	ids
275F		NA .	0	mg/l	0 mg/l	0-2	%
Oil & Greas		ОС		Zinc	Соррег	` Nicl	
NA m	<u>1/1</u> NA	<u>mg/l</u>	0	mg/i	0 mg/l	0	<u>mg/l</u>
SECTION 4: Phys	cal and Chemical				CONCENTRATOIN		UNITS
The was	consists of the fo		als		Ranges are acceptable		or %
	-16 alkyl derivativ				100		%
			• • •				
					·		-

			- -	·			
					-		
				•			
				_ .			
			_				
		,					
L							_
SECTION 5: Safe	y Related Data s waste requires t	ha use of spec	ial protectiv	/e equipment,	please explaiп.		
Standard							

	had Supporting Documents notes, data and/or analysis attached to this form as part of the waste
approval package.	
SECTION 7: Inco Please list ALL inco	npatibilities mpatibilities (if any):
SECTION 8: Gen	rator's Knowledge Documentation
Laboratory analysi	of the hazardous waste characteristics, listed below, WAS NOT PERFORMED
based upon the to	owing generator knowledge:
TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatil	
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	<u> </u>
SECTION 9: Waste	Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste
Treatment Facilitie	1
	naterial a wastewater or wastewater sludge?
Ι,	'Yes', complete this section.
PLEA	E CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategor	
	electroplating baths and/or sludges
	nishing rinse water and sludges
	ale wastes ution control blow down water and sludges
	and solutions
Incine:	ation wastewaters
Waste Waste	liquid mercury
∐ Cyani∉	e-containing wastes greater than 136 mg/l
U Wast€	acids and bases with or without metals
☐ Vibrat	ig, rinsing, and surface preparation solutions from electroplating or phosphating operations ry deburring wastewater
☐ Alkalir	and acid solutions used to clean metal parts or equipment
Oils Subcategory:	·
☐ Used :	
	er emulsions or mixtures
Lubric	nts
Coolar	
Contai	hinated groundwater clean-up from petroleum sources
☐ Used ☐ ☐ Oil spl	etroleum products
☐ Blige v	
Rinse/	/ash waters from petroleum sources

Ä	Intercept it wastes Off-spec idation fuels Undergrand storage remediation waste Tank distance in out from petroleum or olly sources
<u> </u>	Non-cor⊢act used glycols Aqueou∉ and oil mixtures from parts cleaning operations Wastew ter from oil bearing paint washes
	Landfill: achate Contam nated groundwater clean-up from non-petroleum sources Solvent: pearing wastes Off-spe: ification organic product Still bot ome Byprod: ct waste glycol Wastev ater from paint washes Wastev ater from adhesives and/or epoxles formulation Wastev ater from organic chemical product operations Tank cl: an-out from organic, non-petroleum sources
(1)	If the v. aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the v aste contains oil and greese less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3)	If the raste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nici el above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 1	0 Add lonat Instructions
Copper, Nick	t determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cedmium, Chromium, kel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
The information in hereby ce my knowled properties	11: Gi nerator's Certification ation contained herein is based on generator knowledge and/or analytical data. If the above and attached description is complete and accurate to the best of a state of the determine that no deliberate or willful omissions of composition exist and that all known or suspected hazards have been disclosed. I certify that the easted are representative of all materials described by this document.
Authorized	1 Sigr ature: Date:
Printed Na	mertile: Kirovdo Sallias
CES USE	ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Date: 7 Approvel N	-15-09 Approved Rejected



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):	
\$65.00/drum plus freight	
2. Contamination Limit (maximum limit before surchages apply):	
NA	
O County and Dat Law	
3. Surcharge Pricing: NA	
	
4. Special Testing Requirements:	
NA	
E. Turaturant and Handling Bustonsi.	
5. Treatment and Handling Protocol: Put in class 1 box	
. 44 31455 <u>-</u> 23.	
6. Treated Wastewater Discharge Subcategory:	
□ Subcategory A □ Subcategory B □ Subcategory C	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
NA	
<u> </u>	
8. Management for Product Recovered/Recycled (if applicable)	
8. Management for Product Recovered/Recycled (if applicable) NA	

HUNTSMAN

MATERIAL SAFETY DATA SHEET

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

MSDS CODE AND NAME

ALK215

ALKYLATE 215

DATE ISSUED DATE PRINTED 7/1/2004 7/1/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

MSDS CODE AND NAME

ALK215 ALKYLATE 215

:

Chemical Name and/or Family or Description:

Linear Alkylbenzene

COMPANY INFORMATION

Huntsman Petrochemical Corporation P.O. Box 4980 The Woodlands, TX 77387-4980

TELEPHONE NUMBERS

Transportation Emergency

Company: (409) 727-0831

CHEMTREC: (800) 424-9300

Medical Emergency: (409) 722-9673 (24 Hour) General MSDS Assistance: (281) 719-6432 **Technical Information:** (512) 459-6543

2. COMPOSITION AND INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA

IARC

NTP

OTHER

NONE X

Composition:

Chemical Name

Benzene, C10-16 alkyl derivatives

CAS Number 68648-87-3

Exposure Limits

Range in % 100.00

: ALK215

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DATE PRINTED

: 7/1/2004 : 7/1/2004

COMPANY

: HUNTSMAN

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:

Clear liquid

Odor:

Mild odor

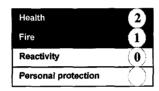
WARNING STATEMENT

CAUTION!

MAY CAUSE SKIN IRRITATION

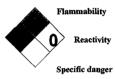
ASPIRATION HAZARD IF SWALLOWED -CAN ENTER LUNGS AND CAUSE DAMAGE

Hazardous Material Information System (United States)



National Fire Protection Association NFPA (United States)

Health



POTENTIAL HEALTH EFFECTS

Primary Route of Exposure

Eye X Skin X Inhalation X Ingestion

Effects of Overexposure

Acute:

Eves:

May cause irritation, experienced as mild discomfort and seen as slight excess redness of

the eye.

Skin:

May cause irritation with discomfort, and seen as local redness and possible swelling. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:

Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion:

If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Sensitization Properties:

Unknown

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:

There is no evidence that this product aggravates an existing medical condition.

Other Remarks:

None

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4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:

Wash skin with plenty of soap and water until all traces of material are removed. Remove and clean contaminated clothing and shoes. Get medical attention if skin irritation persists or contact has been prolonged.

Ingestion

If person is conscious and can swallow, give two glasses of water (16 oz.), but do not induce vomiting. If vomiting occurs, give fluids again. Have medical personnel determine if evacuation of stomach or induction of vomiting is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):

Not determined.

Flash Point (degrees C):

135 (275 F) (COC)

Flammable Limits % (Lower-Upper):

Lower: Not determined. Upper: Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

None

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

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7. HANDLING AND STORAGE

Precautions to be Taken in

Handling:

COMPANY

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Exposed workers should wash exposed skin several times daily with soap and water.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

Exposure Limit for the Total Product:

None established for product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear liquid

Odor:

Mild odor

Boiling Point (degrees C):

279-295 (534-563 F)

Melting/Freezing Point (degrees C):

Not determined.

Specific Gravity (water=1):

0.862 at 15.6C/15.6C (60F/60F)

pH:

Not applicable.

Vapor Pressure:

Not determined.

Viscosity:

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4.20 cSt at 37.8 C (100 F)

VOC Content:

Not determined

Vapor Density (Air=1):

Not determined.

Solubility in Water (%):

< 0.1

Other:

None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:

Air Water

Heat

Strong Oxidizers

Others

None of these X

Comments:

None

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

Hazardous Polymerizations:

DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

LD50 17.00 g/kg (rat) practically non-toxic

Dermal:

LD50 >10.2 g/kg (rabbit) practically non-toxic

Inhalation:

No more than slightly toxic under the conditions of the test (Rat 4-hr LC50 >1.82 mg/L air)

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

(Draize) 20.8 /110 (rabbit) slightly irritating

Skin:

(Draize) 3.6 /8.0 (rabbit) moderately irritating

Sensitization:

Not determined.

Other:

Skin irritation was reported in human volunteers following single and repeated skin application of Alkylate 215. Following repeated exposures (4 week) to Alkylate 215 in their feed, rats exhibited decreased body weights and food consumption. Eye and nose irritation, reduced body weights, some organ weight changes and a loss of abdominal fat occurred following repeated (4 week) inhalation of Alkylate 215 by rats and mice. Similar exposures for a longer period (3 month) resulted in reduced body weight gains and produced liver toxicity (only at the highest exposure level) and various signs of irritation. An increase in minor skeletal birth defects was observed in offspring of rats exposed to Alkylate 215 orally during pregnancy, but only at an amount which produced adverse effects on the mothers and their offspring. Reductions in litter size and viability, survival and weights of pups occurred at dose levels producing parental toxicity when rats were given Alkylate 215 orally for two successive generations. Alkylate 215 produced no genetic changes in standard tests using animals and animal or bacterial cells.

Dodecylbenzene (C12-alkylbenzene), a component of Alkylate 215, has been reported to enhance genetic changes induced by a known carcinogen in a standard test using animal cells. Dodecylbenzene has been used as a vehicle and solvent for polynuclear

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aromatics in carcinogenesis studies and may enhance the tumorigenic potential of known carcinogens.

Mice exposed chronically to alkylbenzenes (branched C10-C15 or linear C9-10) had increases in lymphomas and skin tumors. Significant skin damage was present at the levels used in these studies.

12. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks:

None

13. TRANSPORT INFORMATION

Transportation

DOT:

Proper Shipping Name:

Not regulated

Hazard Class:

Not regulated

Identification Number:

Not regulated

Packing Group:

Not regulated

Label Required:

Not regulated

IMDG

Proper Shipping Name:

Not regulated.

ICAO

Proper Shipping Name:

Not regulated.

TDG

Proper Shipping Name:

Not regulated

Hazard Class:

Not regulated

Identification Number:

Not regulated

Label Required:

Not regulated

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14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

Chemical Name

CAS Number

Range in %

TPQ

RQ

None.

Section 311 Hazardous Categorization:

Acute X Chronic X Fire Pres

Pressure

Reactive

N/A

Section 313 Toxic Chemical

Chemical Name

CAS Number

Concentration

None.

None.

CERCLA 102(a)/DOT Hazardous Substances:

Chemical Name

CAS Number

Range in %

RO

States Right-to-Know Regulations:

Chemical Name

None.

State Right-to-know

California Prop. 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name

CAS Number

None.

INTERNATIONAL REGULATIONS:

TSCA Inventory Status:

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS Classification:

Class D, Div 2, Subdiv B: Irritant

Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Australian Inventory Status:

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status:

This product, or its components, are listed on or are exempt from the Japanese Ministry of International Trade and Industry (MITI) inventory.

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15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:

48 hr EC50 Daphnia magna:

0.08 mg/L, Very Toxic

48 hr LC50 Scud:

>1.4 mg/L, Toxic >1.4 mg/L, Toxic

48 hr LC50 Midge larvae: 96 hr LC50 Rainbow trout:

>1,000 mg/L, Practically Nontoxic

96 hr LC50 Fathead minnow: >1,000 mg/L, Practically Nontoxic

>1,000 mg/L, Practically Nontoxic

96 hr LC50 Bluegill sunfish: 96 hr LC50 Mysid shrimp:

>500 micrograms/L, Very Toxic

Daphnia magna were exposed to Alkylate 215 at concentrations of <1, 1.2, 2.3, 9.5 and 25 micrograms/L through one generation (21 days). Reductions in adult Daphnia survival and in reproduction were observed at concentrations of 9.5 micrograms/L and higher. The maximum acceptable toxicant concentration was considered to be between 2.3 and 9.5 micrograms/L.

Mobility:

Not determined.

Persistence and Biodegradability:

Alkylate 215 was evaluated in natural water microcosms and in shake flask carbon dioxide evolution assays. The test results indicate that this product undergoes rapid primary biodegradation in natural waters, and biodegradation continues to complete mineralization under aerobic conditions.

Potential to Bioaccumulate:

The bioconcentration potential of the C12 homolog of Alkylate 215 was measured over a 96 hour period. It was determined that this material has a low potential to bioaccumulate in fish.

Remarks:

None

16. OTHER INFORMATION 7/1/2004

None

Date Issued: 7/1/2004.

THE INFORMATION IN THIS DATA SHEET IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT. IT IS PROVIDED FOR THE PURPOSE OF HAZARD COMMUNICATION AS PART OF HUNTSMAN'S PRODUCT SAFETY PROGRAM. IT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE PRODUCT BY A PROPERLY TRAINED PERSON. YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN HANDLING OF THE PRODUCT BY A PROPERLY TRAINED PERSON. YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN. THE DATA RELATES ONLY TO THE SPECIFIC PRODUCT IN FORMATION OF AND DOES NOT RELATE TO USE OF THE PRODUCT IN COMBINATION WITH ANY OTHER MATERIAL OR USE OF THE PRODUCT IN ANY PROCESS. THE DATA IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT, ITS COMPOSITION, ITS SAFETY OR THE INFORMATION CONTAINED IN THIS DATA SHEET.

TO DETERMINE THE APPLICABILITY OR THE EFFECTS OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, THE USER SHOULD CONSULT A LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. HUNTSMAN DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

CURRENT DATA SHEETS ARE AVAILABLE FOR ALL HUNTSMAN PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL HUNTSMAN PRODUCTS YOU BUY, USE OR DISTRIBUTE BY CALLING (281) 719-6432 OR DIRECTING YOUR INQUIRIES TO:

HUNTSMAN MANAGER, PRODUCT SAFETY P.O. BOX 4980 THE WOODLANDS, TX 77387-4980

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.

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: ALK215

ALKYLATE 215

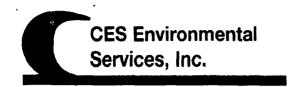
DATE ISSUED
DATE PRINTED

: 7/1/2004

COMPANY

: 7/1/2004 : HUNTSMAN

3392 China Plent



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear Ron Kohler

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3392

Expiration Date 6/24/2011

Generator: China Plant

Address: 500 Old Sour Lake Rd

China, TX

Waste Information

Name of Waste: Carbon Pellets
TCEO Waste Code #: CESQ4041

Container Type:

Vac box

Detailed Description of Process Generating Waste:

Pellets used to remove any hydrocarbons from amine process

Color: Black

ck Odor: hydrocarbon

pH: 6-8

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

U.S. EPA ID No: TXD008950461

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 ISWR No: 30900

SECTION 1: General	ator Information	Li DL+			
Company: Address:	500 011	Co - (law)			
City, State, Zip:		>014 rolle (cd.	•		
• •	- Chron 1	tura	Title:	(A) 1-1-1-1-1	4.
Contact:				Operations	
Phone No:	361-772-286		_ Fax No:	· · · · · · · · · · · · · · · · · · ·	
24/hr Phone:	CESQ		_		
U.S. EPA I.D. No:			_ 010 0.3		
State I.D.	<u></u>		_ SIC Code: _		
SECTIONA DAV.	T-6				
	Information Same				
Сотрапу:	Select Franco				
Address:	223 MCarty 1	<i>Ŧ.</i>		 	
City, State, Zip:	the Tre. MOZG	7931.49	Soles		
Contact:	Kens white	Title:		101	
Phone No:	231. 960. 3967	Fax No:	1(3-572	-1/61	
SECTION 3: Genera	al Description of the W	aste			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Name of Waste:	ark on Pellets of Process Generating [] Liquid [Λ.,	۸ ,		11.73
Detailed Description	of Process Generating	waste: l'ellets	used to 1	enous any	Mychiler Gens
	or a rooter of the rooter and b	From a	mine process	. (
Physical State:	☐ Liquid ☐] Sludge [Powder		
		Filter Cake	Combination		
۸			— Combination		
a. Hak	0.1	: Hydrocober			
Color: 150c	Odo	i Titorage again			
Specific Gravity (was	tor=1)·	Density: lbs.	/aa1		
Specific Gravity (was	1).	Demonty : 103/	Sar		
Does this material co	ntain any total phenolic	compounds? Ves	₽¥o		
	many to an product	resident Las			
Does this material co	utain any para substitu	ted phenolic compoun	ds? 🗌 Yes 🖃	No	
Layers:	Single-phase	Multi-phase			
	C omete burge	Ci, industry			
Container Type:	□ Drum □	Tote F	Truck	Othon	(ovnlain)
- ''] Tote [liuck		(capiain)
Container Size:				The LAX	- DOX
Frequency:	☐ Weekly] Monthly	Quarterly	Yearly	V
Number of Units (co		Other:		 	,
•			-		
Texas State Waste C		ESQ 4041	·		
Proper U.S. DOT Sh	ipping Name:	Non-Ren.	A , NON- S	DOT notai	<i>μ</i>
_					
Class:	UN/NA:	1.0	PC.	na	RQ:

Flash Point 7/50	pH 6-8	Reactive Sulfides	Reactive Cya	inides	Solids <u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
M2_mg/l	100 mg/1	<u>//Q</u> mg/l	_ <i>_^</i> mg/l	<u>ga</u> r	ng/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Carbo- Pellets		90	
Carbo- Vellets		10	

The waste consists of the following materials	Ranges are acceptable	or %
Carbo- Pellets		90
Weter		10
SECTION 5: Safety Related Data		
If the handling of this waste requires the use of special protective equipme	ent, please explain.	
		
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to this form as pa	art of the waste approval packs	1σ <u>6</u> _
	art of the waste approval puers	·5
CT CONTON T To a second the state of		
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):		
SECTION 8: Generator's Knowledge Documentation		
Laboratory analysis of the hazardous waste characteristics, listed below, generator knowledge:	WAS NOT PERFORMED base	ed upon the following
max n x x x x		
TCLP Metals: TCLP Volatiles:		
TCLP Semi-Volatiles:		
Reactivity:		
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:		
- Land Control of the		
SECTION 9: Generator's Certification		
The information contained herein is based on generator knowledge and/o		
attached description is complete and accurate to the best of my knowledg omissions of composition properties exist and that all known or suspected h	e and ability to determine that	no deliberate or willful
tested are representative of all materials described by this document.	azada mavo boom adolosea. 1	boldly mas the material
Mark to 11	Date: 6-16-09	
Authorized Signature: John Sablatura	Date: <u>@ /</u> @ U]	
Printed Name/Title: J- Sablatva		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Compliance Officer: Perhalty		
Date: 6-24-04 (Approved) Rejected		

SECTION 10: Waste Receipt Classification Under 40 CFR 437									
Is this material a wastewater or wastewater sludge? YES NO									
If 'Yes', complete this section.									
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.									
Metals Subcategory: Subpart A									
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment									
Oils Subcategory: Subpart B									
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes									
Organics Subcategory: Subpart C									
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources									

(1)	If the waste contains oil and grease	at or in excess of 100 mg/L.	the waste should be class	fied in the oils subcategory.
``'	AT HER THE PERSON OF THE PERSON		TAX TIMOTO DIAP MILE OF TIMODE	2204 22 424 0115

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

	Metals Subcategory
	Oils Subcategory
П	Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	FL (05) yard + trans+fc
2.	Contamination Limits (maximum limit before surcharges apply):
(
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
٠.	
	Class I solids (andf.7)
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	- Department to Company of the Compa



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);





CERTIFICATE OF ANALYSIS

LCS Reference: T2009-2035H

CUSTOMEF: Reference:

FOR: Select Environmental

PRODUCT: Carbon Pellets

Pasadena, Tx 77507

SAMPLE DRAWN FROM: Submitted

281-474-1334

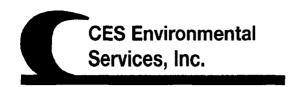
DATE of ANALYSIS: June 19, 2009

LOCATION: Pasade ia, Texas



AX		OUTIO TO	16000		
TEST	TEST METHOD	PREP M	THOD	DETECTION	RESULTS
				LiMiTS,ppm	7,7,2,4,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1,4
RCI	EPA SW 846				
CORROSI					7.85
REACTIVE					<1
REACTIVI					<1
IGNITABL	TY °F	,			172
ТРН	EPA SW-846/8440				341 ppr
376		2 (

		. 1 =			
				<u> </u>	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/25/2009

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3393

Expiration Date 6/24/2011

Generator: Drillmec Inc. **Address:** 162 Woolridge

Conroe, TX 77301

Waste Information

Name of Waste: Recyclable Oily water

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

oily water from washing out an oil tank

Color: dark

Odor: hydrocarbon

pH: 7

Physical State:

Incompatibilities: Strong oxidizers **Safety Related Data/Special Handling:**

Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900



SECTION 1: Gener	ator Infor	mation													
Company :	Drillmed	: Inc.													
Address :	162 Wo	olridge													
City, State, Zip:	Conroe	TX 773	301												
Contact :	Bob Pa	rker							Title:						
Phone No:	(936) 75	56-2071	1						Fax:	(9:	36) 441-	1444			
24 / HR Phone :															
U.S EPA I.D No:	TXCES	QG							_						
State I.D :	CESQG	;							SIC Co	ode					
SECTION 2: Billing	ı İnformat	ion											.*		
Company:	CKG Se		Copro												
Address :	7420 H														
City, State, Zip :	Montgo						······	-							
Contact:	Zac or I								Title :						
Phone No :	(936) 48		 2				·····		Fax:	(9:	36) 756-	1226			
SECTION 3: Gener	, ,			t-						`	,				
Name of Waste :															
Detailed Descrip							: ly t	tan	k						
Physical State :	✓	Liquid			slı	ıdge		Po	wder						
	5,00	Solid			Fil	ter Cake		■ Co	mbinatio	on					
Color :		_			dark		Od	or :		_		hyd	drocarbo	on	
Specific Gravity	(Water=	1):			1		De	nsity :				8.34			lbs / gal
Does this material	contain a	ny totai	pheno	olic co	mpound	ds?	☐ Ye	s	✓ No	•					
Does this material	contain a	ny para	subst	ituted	phenoli	с сотро	unds?	[Yes	[✓ No				
Is the Waste subje	ct to the l	enzene	waste	opera	ation NE	SHAP? (40 CFR I	Part 61,	Subpart	FF)		Yes	✓	No	
2812 2813	2816 28	819 2	821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865	2869 28	373 2	874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	✓	Single-	-Phas		∭ Mı	ulti-Pha	se								
Container Type :		Drum	✓	•	Tote	***	Truck		Other	(explai	n)				
Container Size :		300													
Number Of Units	s:	}1												-	
Is this a USEPA " If "Yes", then p			•					Yes onstitue	✓ N nts Form		d hereto				
If "Vec" is it.	D001	[]	בחחם		DOOS										

Characteristic for Toxic Me	tals: D004	D005	☐ D006		007		
•	☐ D008	D009	D010	_ D	011		
Characteristics for Toxic O	rganics: D012 thru	D043 (pleas	e list all that a	pply)			
Is this an "F" or "K" Listed	waste or mixed wi	ith one?	Yes	∠ No			
If "Yes", then please lis	t ALL applicable co	des:					
Is this a commercial product 261.33(e) or (f)?	ct or spill cleanup	that would ca	arry a "U" or "I	o" waste	e code under 40 CFR	Yes	✓ No
If "Yes", then please lis	st ALL applicable co	odes:		-			
Texas State Waste Code N	lo :r	ecycle					
Proper U.S. State Waste C	ode No :		Recyclab	e hydro	carbon and water mix	dure	
Class: na	UN/NA :	na		PG :	na	RQ:	na
Flash Point	pH	Re	eactive Sulfid	es	Reactive Cyanides	Sol	ids
>140	7		0	mg/i	0 m	ng/I	2 %
Oil and Grease	TOC		Zinc		Copper	Nic	kel
>1000 mg/l	>1500	mg/l	0	mg/l	0 m	ng/l() mg/l
					-		
SECTION 4: Physical and Che							
The material / n	COMPONENTS roduct consists of		C		Ranges are	ntration	or %
The material i	oil	the followin	ing materials			i-90	%
	water				10	-15	%
SECTION 5: Safety Related D							
If the handling of this was	te requires the us	se of special	protective eq	uipmer	nt, please explain.		
standard							
SECTION 6: Attached Suppor	tina Documente						
List all documents, notes,		 Iveie attache	d to this form	as nar	t of the waste annro	val nackade	
none	data, arra/or arra	iyələ attacılc		as pai	tor the waste appro	vai package.	
SECTION 7: Incompatibilities							
Please list all incompatibi	lities (if any):						
strong oxidizers							
	1.1						
SECTION 8: Generator's Know			tion listed be	Jane W	AS NOT DEDECOME	ED based upon t	ho
Laboratory analysis of the following generators know		- characteris	ucs, ustea De	:1UW, W	AS NOT PERFORME	.uaseu upon t	110
TCLP Metals :	x						
TCLP Volatilies :	<u>x</u>						
TCLP Semi-Volatiles :	<u>x</u>						
Reactivity:	<u>x</u>						
			2				

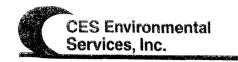
Igņital	tability: <u>x</u>			
SECTION	TION 9: Waste Receipt Classification Under 40 CFR 437	·		
Is this	is material a wastewater or wastewater sludge?	🔀 YES	NO	
If 'YES	ES', complete this section			
PLEA:	ASE CHECK THE APPROPRIATE BOX: IF NO API	PROPRIATE	CATEGORY, GO 1	O THE NEXT PAGE
Matals	als Subcategory: Subpart A			
	Spent electroplating baths and/or sludges			
	Metal finishing rinse water and sludges			
	Chromate wastes			
	Air pollution control blow down water and sludges			
	Spent anodizing solutions			
	Incineration wastewaters			
	Waste liquid mercury			
	Cyanide-containing wastes greater than 136 mg/l			
	Waste acids and bases with or without metals			
	Cleaning, rinsing, and surface preparation solution	ns from electr	oplating or phosph	
	Vibratory deburring wastewater			
Ц	Alkaline and acid solutions used to clean metal pa	arts or equipm	ent	
Oils S	Subcategory: Subpart B			
	Used oils			
	Oil-water emulsions or mixtures			
	Lubricants			
	Coolants			
	Contaminated groundwater clean-up from petrole	um sources		
	Used petroleum products			
	Oil spill clean-up			
	Bilge water			
X	Rinse/wash waters from petroleum sources			
	Interceptor wastes			
	Off-specification fuels			
	Underground storage remediation wastes			
X,	Tank clean-out from petroleum or oily sources			
	Non-contact used glycols			
	Aqueous and oil mixtures from parts cleaning ope	rations		
	Wastewater from oil bearing paint washes			
Organ	anics Subcategory Subpart C			
	Landfill leachate			
	Contaminated groundwater clean-up from non-pe	troleum sourc	es	
	Solvent-bering wastes			
	Off-specification organic product			
	Still bottoms			
	Byproduct waste glycol			
	Wastewater from paint washes	-4! - ·-		
\sqcup	Wastewater from adhesive and/or epoxies formula	ation		

Corrosivity:

<u>x</u>

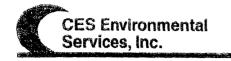
Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste si	hould be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pexcess of the values listed below, the waste should be classified in the meta	
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L	•
Nickel: 37.5 mg/L(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classified	
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not furn Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commoncentrations. This will be prior to acceptance. The generator will be responsible.	nercial laboratory a sample to determine these
SECTION 11: Generator's Certification	
The information contained herein is based on ✓ generator knowledge an above and attached description is complete and accurate to the best of my deliberate or willful omissions of composition properties exist and that all disclosed. I certify that the materials tested are representative of all materi	knowledge and ability to determine that no known or suspected hazards have been
Authorized Signature :	Date: 6/24/09
Printed Name / Title : Zac McKaughn / president	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Pollutify Date: 6-24-09 Status: Approved Rejected	\$125/tote
Date: 6-24-09 Status: Approved Rejected	



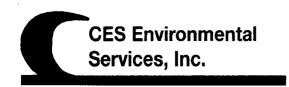
PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
#125/tote
2. Contamination Limit (maximum limit before surchages apply):
reject if material fails chlor-d-tector flash
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product R	ecovered/Recycled (if applicable):	
8. Management for P	roduct Recovered/Recycled (if applicable)	
8. Management for P	roduct Recovered/Recycled (if applicable)	· · · · · · · · · · · · · · · · · · ·
8. Management for P	roduct Recovered/Recycled (if applicable)	
8. Management for P	roduct Recovered/Recycled (if applicable)	· · · · · · · · · · · · · · · · · · ·
8. Management for P	roduct Recovered/Recycled (if applicable)	



Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3394

Expiration Date 6/24/2011

Generator: Cameron Compression Systems

Address: 600 South First Street

Ponca City, OK 74604

Waste Information

Name of Waste: Oily Absorbent TCEO Waste Code #: OUTS3101

Container Type:

Detailed Description of Process Generating Waste:

Absorbent contaminated with oil from metals finishing and manufacturing.

Color: Varies

Odor: Varies/hydrocarbon **pH:** 3-11

Physical State:

Incompatibilities: Strong oxidizers **Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

rt Arthur Facility
nur, TX 77665

CES Environmental Services - Port Arthur Facility



CES Environmental Services - Houston Facility

回

				ouston, TX					20 S. Gultwa					
U.S. EPA ID N		•		Fax: (713)	676-1676 Number: 309(20	115 50		ne (713) 67 Iumber: TXI		-	6) 676-1460 SWR Numb		585
					vumber: 30948 ımber: 30948		0.3. 21	7 ID I	annuer. IAI	/	5507 IS	ANT MOUND	oc	
ICE	<u>Q maastr</u>	iai SUII	u vvasie	remit NU			<u> </u>							
SECTION 1:	Genera	tor Infe	ormatic	on										
Company:					s									
Address:	600 Sou									_				
City:	Ponca (St	ate:	ОК		Zip:				-	74604
Contact:	Joelle N						Title:		Environm	ental l	Manager			
Phone Num			80-767	7-8101			-	nber:	580-761-					
24/hr Phone		_	80-761											
US EPA ID N			700 701	. 0000			-							
State ID No:	-	7	00022				SIC Code	<u> </u>				****		
State ID NO.	•	<u> </u>			 -		_ 310 0001	••						
SECTION 2:	Rilling I	nforma	ation -		Same as Abo	WA								
Company:					MINE 43 MUC	. 								
Address:				Suita 34	, PMB 101					_				
City:	Hoover		C F KWY	, Juile 34		ate:	AL		Zip:	_				35244
Contact:	M. Pins					ute.	Title:	-	_Zip: CFO		-			,,,,,,,,,,
Phone Num			205-982	7700			-	shor.	205-982-0	0600				
rnone num	ber.	_	203-362	-1133			_ rax Null	ibei.	203-362-	0000				
SECTION 3:	Canana	D		. f ah . 14/2	-4-									
<u> </u>	<u>General</u>	Desci	<u>iption (</u>	71 CITC 110	<u> </u>									
Name of Wa	acto:	,	Dily Abs	orbont										
		_			Marta									
Detailed De	scription	1 OT Pro	ocess G	enerating	; waste:									
A bearbant a		لمصلم	انمطمت		ala finiahina		fa.absim	_						
Absorbent c	Ontamin	ated w	/ICH OH I	rom meta	als finishing	and mar	luracturii	g						
Dhysical Sta	+0.		له:ريم:		□ cı.	, dae			Douglas					
Physical Sta	te: /	=	iquid.		=	udge Aan Cale			Powder					
		✓ S	olid		<u> </u>	ter Cake	•	Ш	Combinat	uon				
Calam							04				l			
Color:	varies						Odor:		varies/hy	raocar	bon			
C161 - C		41.		4.5							c = 11			
Specific Gra	vity (wa	ter=1):		<u>1-2</u>	<u>'</u>		-		Density:	8.3-	1/ Ibs	/gal		
-									_	1				
Does this m	aterial c	ontain	any to	tal pheno	lic compour	nds?		Yes	<u>~</u>	No				
								•	_		_			
Does this m	aterial c	ontain	any pa	ra substit	tuted pheno	lic com	oounds?			Yes	✓ No			
_											_	-		
Is the Waste									-	-		Yes	V	No
Answer "Yes			contai					our fac	cility is one	of the	following	; :		
2812		2813		2816	2819	2821		2822	282	3	2824	2833		2834
2835	:	2836		2841	2842	2843		2844	285	1	2861	2865		2869
2873	:	2874		2876	2879	2891		2892	289	3	2896	2899		2911
3312		4953		4959	9511									
Layers:	✓	Single	-phase		Multi-ph	ase								
		_			•									
Container T	ype:	√ [rum	☐ Tot	te 🗌 Tri	uck 🗌	Other (e	xplain	1)					
	•	-		-	_		•	-						
Frequency:	☐ We	ekly [☑ Mor	nthly 🔲	Yearly 🗌	One-T	ime							
Quantity:	5-15													

~									
	Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto								
If "Yes", Character	, Is it:	D001 (Ignitabl 1etals:	e)		D00€	D003 (Read D007		□ D009	
Character	istic for Toxic C	organics: D012	thru D043 (p	olease list a	II that apply)				
	"F" or "K" Liste then please lis	-		?	☐ Yes	s	No		
40 CFR 26	Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?								
Texas Stat	te Waste Code	Number:		OUTS-310	1				
Proper US Class:	DOT Shipping		Non RCRA/I	Non DOT Re _ PG :	egulated Mater Na	ial (Oily Pad: _RQ:	& Absorber	nt)	
Fla	sh Point	На		React	ive Sulfides	Reactive	Cyanides	Sol	ids
	40 deg F	3-1		NA	mg/l	NA	mg/l	<2	%
Oil	& Grease	TO	<u> </u>		Zinc	Cop	per	Nic	kel
>1500	<u>mg/l</u>	<10,000	mg/l	NA	mg/l	NA	mg/i	NA	<u>mg/l</u>
SECTION 4	L: Physical and	Chemical Data		_					
	CON	IPONENTS TAB	LE			CONCENT	RATOIN		UNITS
	The waste consists of the following materials Ranges are acceptable or				or %				
<u> </u>	Filters	, Pads & Absort	bent		<u> </u>	65-			%
<u> </u>		Dirt, Debris Oil			 	0-: 5-4			%
		Oil				3-4			70
		· 			 				

CONCENTRATOIN	UNITS
Ranges are acceptable	or %
65-95	%
0-5	%
5-40	%
<u>.</u>	
-	
	_
<u> </u>	
	
	Ranges are acceptable 65-95 0-5

	_		use of special protect	ive equipment, please e	explain.	
	cuments, note	upporting Docum s, data and/or an		form as part of the was	ite	
	•	ilities ibilities (if any):				
Laborator	y analysis of th	s Knowledge Doc ne hazardous was ng generator knov	te characteristics, list	ed below, WAS NOT PEF	RFORMED	
TCLP Meta	als:	x				
TCLP Vola		x				
	i-Volatiles:	<u>x</u>	·			
Reactivity		<u>x</u>		<u> </u>		
Corrosivit		×				
Ignitabilit	•	×				
Billion	,,		-			
SECTION 9	: Waste Receip	t Classification Un	der 40 CFR 437 (Prtaini	ng to Pre-Treatment Regu	irements fo	r Centralized Waste Treatment
Facilities)			<u> </u>	<u></u>		
			r wastewater sludge?		☐ YES	✓ NO
	If 'Yes',	complete this sect	ion.			
	0124656115	OV. = 115. 4.0				
	PLEASE CHE	CK THE APPROPRIA	ATE BOX. IF NO APPRO	PRIATE CATEGORY, GO TO	THE NEXT	PAGE.
Metals Sul	category: Sub	part A				
		oplating baths and	or sludges			
ĺ	Metal finish	ing rinse water and	d sludges			
ļ	Chromate w					
l !			n water and sludges			
i		zing solutions wastewaters				
j	Waste liquid					
[Cyanide-con	taining wastes gre	ater than 136 mg/l			
[=	and bases with or				
ļ				om electroplating or phos	phating ope	rations
l I	_	burring wastewate	er d to clean metal parts c	r aquinment		
ι	Alkalille allu	aciu solutions use	a to clean metal parts c	i equipment		
Oils Subcat	<u>tegory</u> : Subpai	t B				
[Used oils					
ļ	= .	nulsions or mixture	es			
Į	Lubricants Coolants					
l I	_	ed groundwater cla	ean-up from petroleum	sources		
j	_	eum products	up ironi petroledili	J 3 11 10 10 10 10 10 10 10 10 10 10 10 10		
j	Oil spill clear					
Ī	Bilge water	•				
	Dinco/wach	waters from notrol	laum cources			

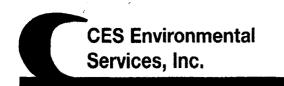
	Interceptor wastes
Ļ	Off-specification fuels
<u> </u> _	Underground storage remediation waste
닕	Tank clean-out from petroleum or olly sources
<u></u>	Non-contact used glycols
—	Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
L	wastewater not on bearing paint westers
Organics Sub	category: Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
Ц	Byproduct waste glycol
님	Wastewater from paint washes
뉘	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Took plan out from organic pan petrology courses
لبا	Tank clean-out from organic, non-petroleum sources
(1)	
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	•
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	✓ Metals Subcategory
	Oils Subcategory
	Organics Subcategory
SECTION 10	Additional Instructions
Copper, Nicke	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This o acceptance. The generator will be responsible for the cost of the analysis.
CECTION 44.	Consents de Cavalitantian
	Generator's Certification
	tion contained herein is based on generator knowledge and/or analytical data.
	ify that the above and attached description is complete and accurate to the best of
my knowled:	ge and ability to determine that no deliberate or willful omissions of compostion
properties ex	kist and that all known or suspected hazards have been disclosed. I certify that the
materials tes	ted are representative of all materials described by this document.
	1/5/19
Authorized S	ilgnature: Date: GO/O/
Printed Nam	e/Title: Lee Pinson, Authorized Representative for Generator
CES USE ONL	Y (DO NOT WRITE IN THIS SPACE)
	0.00
Compliance (Officer: Valuation
Date: L.	71,-10 MApproved Rejected
Approval Nu	
- Ashinani (1991)	



1. Dase Pricing (including freight).
\$ 35/Lourn + trans-18c
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: () Oily Phos the Recycling (2) Class I Solids
2 class 1 Solids
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Rec	overed/Recycled (if	applicable):	
8. Management for Prod	duct Recovered/Recy	ycled (if applicable)	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/24/2009

Dear Bobby Lee

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3395

Expiration Date 6/24/2011

Producer: Industrial Degassing Services, LLC - IDS

Address: 2406 Market Street

Baytown, TX 77520

Material / Product Information

Name of Material / Product Unused hydrogen peroxide

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused hydrogen peroxide 35%

Oliused hydrogen peroxide 3370

Color: Clear Odor: None pH: 3-4

Physical State:

Incompatibilities: Combustible materials; ORGANICS; ACIDS; see section 6 of

MSDS; see section 10 of MSDS

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 Produt PACES

SECTION 1: General	ator Informatio	n												
Company:	Industrial De	gassing	Servic	es, LLC	- IDS									
Address:	2406 Market	Street	2406 N	larket S	Street									
City, State, Zip:	Baytown TX	77520												
Contact :	Bobby Lee							Title :						
Phone No :	(281) 837-74	-31						Fax :	(28	1) 837-	7434			
24 / HR Phone :								=						
$\mbox{U.S}\mbox{ EPA I.D No}$:								_						
State I.D :								SIC Code	e na					
SECTION 2: Billing	Information													
Company:	Industrial De	gassing	Service	es, LLC	- IDS									
Address :	2406 Market	Street	2406 M	arket S	Street									
City, State, Zip:	Baytown TX	77520	-											
Contact :	Bobby Lee							Title :						
Phone No :	(281) 837-74	31						Fax :	(28	1) 837-	7434			
SECTION 3: Genera	al Description	of the W	aste											
Name of Waste :	Unused hydr	ogen pe	eroxide											
Detailed Descript	tion of the Pr	ocess (Genera [.]	ting W	aste:									
Unused hydrogen	peroxide 35%	o									•			
Physical State :	✓ Liqui	d		∭ Slu	dge		Pov	vder						
	■ Solid			Filt	er Cake		Cor	nbination						
Color:			(Clear		Od	or:					none		_
Specific Gravity (Water=1) :			1.11		De	nsity:				8-9			lbs / gal
Does this material	contain any to	tal phen	olic con	pound	s?	☐ Ye	s	✓ No						1
Does this material	contain any pa	ra subsi	tituted p	henolic	compo	unds?		Yes	✓	N o				
Is the Waste subject	t to the benze	ne waste	e operat	ion NES	SHAP? (40 CFR F	Part 61, 9	Subpart FF	=)		Yes		No	
2812 2813 2	816 2819	2821	2822	2823	2824	2833	2834	2835 2	2836	2841	2842	2843	2844	2851
2861 2865 2	869 2873	2874	2876	2879	2891	2892	2893	2896 2	2899	2911	3312	4953	4959	9511
Layers :	✓ Single	e-Phas		Mu	lti-Phas	se								
Container Type :	✓ Drum	1] T	ote	31	Truck		Other (ex	cplain	ı)				
Container Size :	55													
Number Of Units	: 15	<u> </u>												
Is this a USEPA "H If "Yes", then ple		•				_	Yes onstituen	☐ No ts Form att	:ached	hereto				
If "Yes", is it:	D001	D002		D003										

Characteristic for Toxic N	detals: D004 D0	05 🗌 D006 📋	D007	
e e e e e e e e e e e e e e e e e e e	D008 D0	09 D010	D011	
Characteristics for Toxic	Organics: D012 thru D043 (pl	lease list all that apply)		
Is this an "F" or "K" Liste	ed waste or mixed with one?	Yes No		
If "Yes", then please	list ALL applicable codes:			
Is this a commercial process: 261.33(e) or (f)?	duct or spill cleanup that woul	ld carry a "U" or "P" was	ste code under 40 CFR	Yes No
If "Yes", then please	list ALL applicable codes:			
Texas State Waste Code				
Proper U.S. State Waste	Code No : open peroxide, ac	queous solutions with no	t less than 20% but not more	than 40% hydrogen pe
Class: 5.1 (Oxidizer)	UN/NA: UN2014	PG:	П	RQ: 100
Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
na	3-4	na mg/l	namg/l	0 %
Oil and Grease	тос	Zinc	Copper	Nickel
namg/l	na mg/l	na mg/l	na mg/l	namg/l
SECTION 4: Physical and C	hemical Data			
	Market Berneller Berneller Bernelle British Bernelle Bernelle Bernelle Bernelle Bernelle Bernelle Bernelle Ber	NEW THE PARTY OF T		
The material /	product consists of the follo	owing materials	Ranges are acce	otable or %
	hydrogen peroxide water		20-40 60-80	% %
	Nator		00 00	~
SECTION E. Safety Balated	Data			
SECTION 5: Safety Related		alal myataatiya aayimm	unt ulassa avalain	
n the nandling of this wa std PPE	aste requires the use of spec	ciai protective equipme	ent, piease expiain.	
0.011				
SECTION 6: Attached Supp	orting Documents			
	s, data, and/or analysis attac	ched to this form as na	irt of the waste annroval na	nckage
msds	o, adia, anaror anaryoro atta	oned to ano form as pe	iit oi tile waste approvai pe	ionage.
SECTION 7: Incompatibilitie	es			
Please list all incompatil	pilities (if any):			
Combustible materials; 'O	RGANICS; ACIDS'; see sectio	on 6 of MSDS; see section	on 10 of MSDS	
SECTION 8: Generator's Kn	owledge Documentation			
Laboratory analysis of th following generators kno	ne hazardous waste characte owledge	eristics, listed below, V	VAS NOT PERFORMED bas	sed upon the
TCLP Metals :	<u>x</u>			
TCLP Volatilies :	<u>x</u>			
TCLP Semi-Volatiles :	<u>x</u>			
Reactivity :	<u>x</u>			
•		2		

Corro	sivity: <u>X</u>
Ignital	bility: <u>x</u>
S	
SECTION	ON 9: Waste Receipt Classification Under 40 CFR 437
Is this	material a wastewater or wastewater sludge ?
If 'YES	c', complete this section
PLEAS	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
	Alkaline and acid solutions used to clean metal parts of equipment
Oile S	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
<u>Organ</u>	ics Subcategory Subpart C
	Landfill leachate Contaminated groundwater clean up from pan patroloum sources
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes Off appointant product
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol Wastewater from point washes
	Wastewater from paint washes
1 1	Wastewater from adhesive and/or epoxies formulation

Wastewater from organic chemical product operations

•	Jun 23 2009	2:46PM	Industrial	Degassing	Srvc 281-4	27-5135 	. p.6
: •	JUN-15-2009	11:23	CES Environme	ental Service		713 676	676 P.06
		Tank clean-o Mon-contact Aqueous and	tion fuels I storage remediation waste ut from petroleum or bily so:	ning operations			
	<u>Omonica</u>	Solvent-beam Off-specificat Still bottoms Byproduct wi Wastewater Wastewater Wastewater	ate digroundwater clean-up from ing wastes Ion organic product	es formulation ct operations			
	(z)	if the waste c	ontains oil and greate at or m	n excess of 100 mg/L, the	e waste should be classifi	ed in the oils subcat	egory.
	(2)	excess of the Ca Ch Co	ontains oil and grease less th values listed below, the wast dmium: 0.1 mg/L romium: 8.9 mg/L aper: 4.9 mg/L ckel: 37.5 mg/L	_		below in concentrat	ions in
	(3)	or nickel abov	ontains oil and grease less the e any of the values listed abo Metals Subcategory Oils Subcategory Organics Subcategory				m, copper,
	SECTION	10 Additional inst	Pusions.				
	Copper, N	lickel, and Oil and	correct subcategory in Secti Gnaze, CES will send offsite The generator will be respon	to a commercial laborate	ory a sample to determin		
	The infor I hereby my know propertie	certify that the a liedge and ability is exist and that a		perate or willful omissi ards have been disclos	or curate to the best of one of compostion sed. I certify that the	lytica data.	
	Authoris	ed Signature: 🦠	Bobby Ries		Date:	6/17/09	
	Printed R	lame/Title:	Bobby LEE	(SALES)			
	CES USE (Complian Date: Approval	100 Officer: 100	RITE IN THIS SPACE) LIMITATION Approved	Rejected			
							TOTAL P.06



1. Base Pricing (including freight):
trans only
2. Contamination Limit (maximum limit before surchages apply):
Un used Product
3. Surcharge Pricing:
4. Special Testing Requirements:
4. Special Testing Requirements: Be some if is unused/scaled/free of solids/conforms to profile
5. Treatment and Handling Protocol:
Use at PACES in production.
6. Treated Wastewater Discharge Subcategory:



7. Tests for Product Recovere	d/Recycled (if applicable):		
8. Management for Product F	Recovered/Recycled (if applicable	e)	

MATERIAL SAFETY DATA SHEET

Hydrogen Peroxide (20 to 40%)



MSDS Ref. No.: 7722-84-1-3 **Date Approved:** 06/03/2008

Revision No.: 11

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Hydrogen Peroxide (20 to 40%)

ALTERNATE PRODUCT NAME(S): Durox® Reg. & LR 35%, Oxypure® 35%, Standard 27.5 & 35%, Super D® 25 & 35, Technical 35%, HTP 35%, OHP 35%, Chlorate Grade, 20%, Semiconductor Reg, Seg, RGS, RGS 2, RGS 3, 31%

GENERAL USE:

Durox® 35% Reg. & LR - meets the Food Chemical Codex requirements for aseptic packaging and other food related applications.

Oxypure® 35% - certified by NSF to meet NSF/ANSI Standard 60 requirements for drinking water treatment.

Standard 27.5 and 35% - most suitable grade for industrial bleaching, processing, pollution abatement and general oxidation reactions.

Semiconductor Reg, Seg, RGS, RGS 2, RGS 3, 31% - conform to ACS and Semi Specs. for wafer etching and cleaning, and applications requiring low residues.

Super D® 25 and 35% - meets US Pharmacopoeia specifications for 3% topical solutions when diluted with proper quality water. While manufactured to the USP standards for purity and to FMC's demanding ISO 9002 quality standards, FMC does not claim that it's Hydrogen Peroxide is manufactured in accordance with all pharmaceutical cGMP conditions.

Technical 35% - essentially free of inorganic metals suitable for chemical synthesis.

HTP 35% - specially formulated for aerospace equipment conditioning.

OHP 35% - specially formulated for OHP process, advanced oxidation, and activated peroxide applications

Chlorate Grade 20% - specially formulated for use in chlorate manufacture or processing.

Page 1 of 11

MANUFACTURER

FMC CORPORATION
FMC Peroxygens
1735 Market Street
Philadelphia, PA 19103
(215) 299-6000 (General Information)
msdsinfo@fmc.com (Email - General Information)

FMC of Canada Ltd. FMC Peroxygens PG Pulp Mill Road Prince George, BC V2N2S6 (250) 561-4200 (General Information)

EMERGENCY TELEPHONE NUMBERS

Date: 06/03/2008

(281) 474-8750 (Plant: Pasadena, TX, US - Call Collect) (250) 561-4221 (Plant: Prince George, BC, Canada - Call Collect)

(303) 595-9048 (Medical - U.S. - Call Collect)

For leak, fire, spill, or accident emergencies, call: (800) 424-9300 (CHEMTREC - U.S.A.) (613) 996-6666 (CANUTEC - Canada)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Clear, colorless, odorless liquid
- Oxidizer.
- Contact with combustibles may cause fire.
- Decomposes yielding oxygen that supports combustion of organic matters and can cause overpressure
 if confined.
- Corrosive to eyes, nose, throat, lungs and gastrointestinal tract.

POTENTIAL HEALTH EFFECTS: Corrosive to eyes, nose, throat and lungs. May cause irreversible tissue damage to the eyes including blindness. May cause skin irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Hydrogen Peroxide	7722-84-1	20 - 40	231-765-0	O, C, Xn; R5- R8-R35- R20/22
Water	7732-18-5	60 - 80	231-791-2	Not classified

4. FIRST AID MEASURES

EYES: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

Date: 06/03/2008

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

NOTES TO MEDICAL DOCTOR: Hydrogen peroxide at these concentrations is a strong oxidant. Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered. Because of the likelihood of corrosive effects on the gastrointestinal tract after ingestion, and the unlikelihood of systemic effects, attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Flood with water.

FIRE / EXPLOSION HAZARDS: Product is non-combustible. On decomposition releases oxygen which may intensify fire.

FIRE FIGHTING PROCEDURES: Any tank or container surrounded by fire should be flooded with water for cooling. Wear full protective clothing and self-contained breathing apparatus.

FLAMMABLE LIMITS: Non-combustible

SENSITIVITY TO IMPACT: No data available

SENSITIVITY TO STATIC DISCHARGE: No data available

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Dilute with a large volume of water and hold in a pond or diked area until hydrogen peroxide decomposes. Hydrogen peroxide may be decomposed by adding sodium metabisulfite or sodium sulfite after diluting to about 5%. Dispose according to methods outlined for waste disposal.

Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

Date: 06/03/2008

7. HANDLING AND STORAGE

HANDLING: Wear chemical splash-type monogoggles and full-face shield, impervious clothing, such as rubber, PVC, etc., and rubber or neoprene gloves and shoes. Avoid cotton, wool and leather. Avoid excessive heat and contamination. Contamination may cause decomposition and generation of oxygen gas which could result in high pressures and possible container rupture. Hydrogen peroxide should be stored only in vented containers and transferred only in a prescribed manner (see FMC Technical Bulletins). Never return unused hydrogen peroxide to original container, empty drums should be triple rinsed with water before discarding. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic.

STORAGE: Store drums in cool areas out of direct sunlight and away from combustibles. For bulk storage refer to FMC Technical Bulletins.

COMMENTS: VENTILATION: Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into the work environment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Hydrogen Peroxide	1 ppm (TWA)	1 ppm (PEL) 1.4 mg/m³ (PEL)	

ENGINEERING CONTROLS: Ventilation should be provided to minimize the release of hydrogen peroxide vapors and mists into the work environment. Spills should be minimized or confined immediately to prevent release into the work area. Remove contaminated clothing immediately and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash-type monogoggles and a full-face shield made of polycarbonate, acetate, polycarbonate/acetate, PETG or thermoplastic.

RESPIRATORY: If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS approved self-contained breathing apparatus (SCBA), or other approved atmospheric-supplied respirator (ASR) equipment (e.g., a full-face airline respirator (ALR)). DO NOT use any form of air-purifying respirator (APR) or filtering facepiece (AKA dust mask), especially those containing oxidizable sorbants such as activated carbon.

PROTECTIVE CLOTHING: For body protection wear impervious clothing such as an approved splash protective suit made of SBR Rubber, PVC (PVC Outershell w/Polyester Substrate), Gore-Tex (Polyester trilaminate w/Gore-Tex), or a specialized HAZMAT Splash or Protective Suite (Level A, B, or C). For foot protection, wear approved boots made of NBR, PVC, Polyurethane, or neoprene. Overboots made of Latex or PVC, as well as firefighter boots or specialized HAZMAT boots are also permitted. DO NOT wear any form of boot or overboots made of nylon or nylon blends. DO NOT use cotton, wool or leather, as these materials react RAPIDLY with higher concentrations of hydrogen peroxide. Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

Date: 06/03/2008

GLOVES: For hand protection, wear approved gloves made of nitrile, PVC, or neoprene. DO NOT use cotton, wool or leather for these materials react RAPIDLY with higher concentrations of hydrogen peroxide. Thoroughly rinse the outside of gloves with water prior to removal. Inspect regularly for leaks.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Odorless

APPEARANCE: Clear, colorless liquid

AUTOIGNITION TEMPERATURE: Non-combustible

BOILING POINT: 103°C/218°F (20%); 107°C/225°F (31%); 108°C/226°F

(35%)

COEFFICIENT OF OIL / WATER: Not available

DENSITY / WEIGHT PER VOLUME: Not available

EVAPORATION RATE: > 1 (Butyl Acetate = 1)

FLASH POINT: Non-combustible

FREEZING POINT: -15°C/6°F (20%); -26°C/-15°F (31%); -33°C/-27°F (35%)

ODOR THRESHOLD: Not available

OXIDIZING PROPERTIES: Strong oxidizer

PERCENT VOLATILE: 100

pH: <= 3.7 5.0 - 6.0 @ 25 °C (1% solution)

SOLUBILITY IN WATER: 100 %

SPECIFIC GRAVITY: 1.07 @ 20°C/4°C (20%); 1.11 @ 20°C/4°C (31%); 1.13 @

20°C/4°C (35%)

VAPOR DENSITY: (Air = 1): Not available

VAPOR PRESSURE: 28 mmHg @ 30°C (20%); 24 mmHg @ 30°C (31%); 23

mmHg @ 30°C (35%)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat or contamination could cause

product to become unstable.

STABILITY: Stable (heat and contamination could cause

decomposition)

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Reducing agents, wood, paper and other

combustibles, iron and other heavy metals, copper

Date: 06/03/2008

alloys and caustic.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen which supports combustion.

COMMENTS: Materials to Avoid: Dirt, organics, cyanides and combustibles such as wood, paper, oils, etc.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: 35% hydrogen peroxide: Extremely irritating/corrosive (rabbit) [FMC Study

Number: 183-748]

SKIN EFFECTS: 35% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit) [FMC

Study Number: 183-747]

DERMAL LD₅₀: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit) [FMC Study Number: 183-746]

ORAL LD₅₀: 35% hydrogen peroxide: 1,193 mg/kg (rat) [FMC Study Number: 183-745]

INHALATION LC₅₀: 50% hydrogen peroxide: > 0.17 mg/l (rat) [FMC Study Number: 189-1080]

TARGET ORGANS: Eyes, nose, throat and lungs

ACUTE EFFECTS FROM OVEREXPOSURE: Extremely irritating/corrosive to eyes and gastrointestinal tract. May cause irreversible tissue damage to the eyes including blindness. Inhalation of mist or vapors may be severely irritating to nose, throat and lungs. May cause skin irritation.

CHRONIC EFFECTS FROM OVEREXPOSURE: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).

CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Hydrogen Peroxide	Not listed	Not listed	Not listed	(ACGIH) Listed (A3,
				Animal Carcinogen)

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Channel catfish 96-hour LC₅₀ = 37.4 mg/L

Fathead minnow 96-hour $LC_{50} = 16.4 \text{ mg/L}$

Daphnia magna 24-hour $EC_{50} = 7.7 \text{ mg/L}$

Daphnia pulex 48-hour $LC_{50} = 2.4 \text{ mg/L}$

Freshwater snail 96-hour $LC_{50} = 17.7 \text{ mg/L}$

For more information refer to ECETOC "Joint Assessment of Commodity Chemicals No. 22, Hydrogen Peroxide." ISSN-0773-6339, January 1993

CHEMICAL FATE INFORMATION: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hrs. and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decompose followed by discharge into a suitable treatment system in accordance with all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: Hydrogen peroxide, aqueous solutions with

not less than 20% but not more than 40%

Date: 06/03/2008

hydrogen peroxide

PRIMARY HAZARD CLASS / DIVISION:

5.1 (Oxidizer) UN 2014

UN/NA NUMBER: PACKING GROUP:

LABEL(S):

Oxidizer, Corrosive

PLACARD(S):

5.1 (Oxidizer)

ADDITIONAL INFORMATION:

Date: 06/03/2008

DOT Marking: Hydrogen Peroxide, aqueous solution with not less than 20%, but not more than 40% Hydrogen Peroxide,

UN 2014

Hazardous Substance/RQ: Not applicable

49 STCC Number: 4918775

DOT Spec: stainless steel/high purity aluminum cargo tanks and rail cars. UN Spec: HDPE drums. Contact FMC for

specific details.

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

PROPER SHIPPING NAME:

Hydrogen peroxide, aqueous solutions with not less than 20%, but not more than 60% hydrogen peroxide.

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

PROPER SHIPPING NAME:

Hydrogen peroxide, aqueous solutions with not less than 20%, but not more than 40% hydrogen peroxide (*).

OTHER INFORMATION:

(*) Air regulations permit shipment of Hydrogen Peroxide (20 - 40%) in non-vented containers for Air Cargo Only aircraft, as well as for Passenger and Cargo aircraft. HOWEVER, all FMC Hydrogen Peroxide containers are vented and therefore, air shipments of FMC H₂0₂ is not permitted. IATA air regulations state that venting of packages containing oxidizing substances is not permitted for air transport.

Protect from physical damage. Keep drums in upright position. Drums should not be stacked in transit. Do not store drum on wooden pallets.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):

Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370):

Fire Hazard, Immediate (Acute) Health Hazard

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.: None, (conc. <52%)

Date: 06/03/2008

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):

Unlisted (Hydrogen Peroxide 20-40%); RQ = 100 lbs.; Ignitability, Corrosivity

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA INVENTORY STATUS (40 CFR 710):

Listed

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) RCRA IDENTIFICATION OF HAZARDOUS WASTE (40 CFR 261):

Waste Number: D001, D002

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Hazard Classification / Division: C

: C E

D2B

Product Identification Number:

2014

Ingredient Disclosure List:

Listed

Domestic Substance List:

All components listed

INTERNATIONAL LISTINGS

Hydrogen peroxide:

China: Listed

Japan (ENCS): (1)-419

Korea: KE-20204

Philippines (PICCS): Listed

HAZARD AND RISK PHRASE DESCRIPTIONS:

EC Symbols:

О

(Oxidizer)

Hydrogen Peroxide (20 to 40%) (7722-84-1-3)

Date: 06/03/2008

C (Corrosive)

Xn (Harmful)

EC Risk Phrases:

R5 (Heating may cause an explosion.)

R8 (Contact with combustible material may cause fire)

R35 (Causes severe burns.)

R20/22 (Harmful by inhalation and if swallowed.)

16. OTHER INFORMATION

HMIS

Health	3
Flammability	0
Physical Hazard	1
Personal Protection (PPE)	Н

Protection = H (Safety goggles, gloves, apron, the use of a supplied air or SCBA respirator is required in lieu of a vapor cartridge respirator)

HMIS = Hazardous Materials Identification System

Degree of Hazard Code:

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Minimal

NFPA

Health	3
Flammability	0
Reactivity	1
Special	OX

SPECIAL = OX (Oxidizer)

NFPA (National Fire Protection Association)

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

REVISION SUMMARY:

This MSDS replaces Revision #10, dated April 27, 2006.

Page 10 of 11

Hydrogen Peroxide (20 to 40%) (7722-84-1-3)

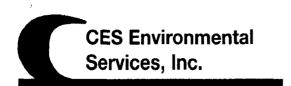
Changes in information are as follows: Section 1 (Product and Company Identification) Section 3 (Composition / Information on Ingredients) Section 15 (Regulatory Information) Section 16 (Other Information)

Durox, Oxypure, Super D and FMC Logo - FMC Trademarks

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Date: 06/03/2008



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear Ralph Jenkins

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3397

Expiration Date 6/23/2011

Generator: Hydrocarbons Engineering Processing Inc.

Address: 12 Lindo Lane

Natchez, MS 39122

Waste Information

Name of Waste: Oily water w/ aromatics

TCEQ Waste Code #: OUTS205H

Container Type:

Detailed Description of Process Generating Waste:

material generated from equipment oil changes & cleanings

Color: light brown Odor:

Odor: hydrocarbon pH: 5-9

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

FLAMMABLE PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

· ·	4					S Envi vices,		ental	<i>-</i>	# '	339) D	Ĺ
					676-14		Fax	uston, T :: (713) ntal.cor	676-16			S	<u> </u>	organdous Wontur
		IJ.		Q Indu	strial S		aste Pe	rmit No					A,	1000
										-			-	X ·
SECTION 1: Gener				 Droops	مما مماء									
Company : Address :	Hydrocarbo 12 Lindo La	_			sing inc	·						<u>.</u>	-	
City, State, Zip :	Natchez MS		DOX 10											
Contact:	Ralph Jenki							Title :	-					
Phone No :	(601) 445-0				•			Fax:	(6)	01) 445	-0819			_
24 / HR Phone :								_						
U.S EPA I.D No	1/1	MSR	DO	D101	09	7								
State I.D :	7	D	50 2	28				SIC C	ode _					
SECTION 2: Billing				 Drooo	oina Ina									
Company : Address :	Hydrocarbo 12 Lindo La				Sing inc	·								
City, State, Zip :			DOX 10											
Contact :	Ralph Jenki							Title :						_
Phone No :	(601) 445-0				-		-	Fax :	(60	01) 445	-0819		-	
SECTION 3: General	al Description	of the W	aste											
Name of Waste :	Oily water w	/ aroma	ics											
Detailed Descrip	tion of the P	rocess	Genera	ting W	aste:									
material generate	d from equipi	ment oil	change	s & clea	anings									
Physical State :	✓ Liqu	id		∭ Slu	dge		Po	wder						
	∭ Solie	t		Filt	er Cake		☑ Co	mbinatio	on					
Color :			ligh	t brown	1	Oc	lor :				hyd	drocarbo	n	
Specific Gravity	(Water=1) :			.95-1		De	nsity:				8			bs / gal
Does this material	contain any to	tal phen	olic cor	npound	s?	□ Ye	es	✓ No)					
Does this material	contain any p	ara subs	tituted ;	henolio	compo	unds?	[Yes	[✓ No				
Is the Waste subject	ct to the benz	ene wast	e opera	tion NE	SHAP?(40 CFR	Part 61,	Subpart	FF)		Yes	✓	No	
2812 2813 2	2816 2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	2869 2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	Sing	le-Phas		✓ Mu	lti-Pha	se								
Container Type :	Drui	n 🛚] T	ote	✓	Truck		Other	(explai	n)				
Container Size :	500	0												
Number Of Units	: 1													
Is this a USEPA "I		•					Yes Constitue	☐ N nts Form		d hereto				
If "Yes", is it: ✓	D001	D002		D003										

Characteristic for Toxic M	letals: 🗌 D004 📋 I	D005 🗌 D006 🔲	D007	
The state of the s	☐ D008 ☐ I	D009	D011	
Characteristics for Toxic	Organics: D012 thru D043	(please list all that apply)		
Is this an "F" or "K" Liste	d waste or mixed with one	? Yes 🗸 No		
If "Yes", then please I	ist ALL applicable codes:			
Is this a commercial prod 261.33(e) or (f)?	uct or spill cleanup that wo	ould carry a "U" or "P" was	te code under 40 CFR	Yes ✓ No
	list ALL applicable codes:			
Texas State Waste Code	No: PENDING	outs 205	4	
Proper U.S. State Waste	Code No	RQ, UN1993, Flamma	ole Liquids, N.O.S. (aromati	c), 3, II
Class: 3	UN/NA : UN199	93 PG :	11	RQ : 100
Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
<100	5-9	BRL mg/l	BRL mg/l	<5 %
Oil and Grease	тос	Zinc	Copper	Nickel
>1500 mg/l	>1500 mg/l	BRL mg/l	BRL mg/l	BRL mg/l
SECTION 4. District and Cl	hamical Data			
SECTION 4: Physical and Cl	COMPONENTS TABLE			
- March 1997 1997 1997 1997 1997 1997 1997 199	product consists of the fo	HART DESCRIPTION OF THE PROPERTY OF THE PROPER	Concentrati Ranges are acce	Status (1861), The Control (1971), Status (1971), S
	USED OIL	<u> </u>	40-85	%
	AROMATICS		5-20	%
	WATER		10-40	%
SECTION 5: Safety Related I	Data			
	ste requires the use of sp	necial protective equipme	ent, please explain.	
FLAMMABLE PPE			, product on prainit	
SECTION 6: Attached Suppo	orting Documents			
List all documents, notes	s, data, and/or analysis at	tached to this form as pa	rt of the waste approval p	ackage.
SECTION 7: Incompatibilitie				
Please list all incompatib	ollities (if any):			
SECTION 8: Generator's Kno	owledge Documentation			
	e hazardous waste chara	cteristics, listed below, V	VAS NOT PERFORMED ba	sed upon the
TCLP Metals :	BRL			
TCLP Volatilies :	BRL			
TCLP Volatiles :	BRL			
Reactivity:	NON			
neactivity.	INOIN	2		

Corro	ivity: NON
Ignital	ility: <u><100F</u>
SECTIO	N 9: Waste Receipt Classification Under 40 CFR 437
ls this	naterial a wastewater or wastewater sludge ?
If 'YES	complete this section
PLEAS	E CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matais	Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	fletal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	ncineration wastewaters
	Vaste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Vaste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	/ibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
	bcategory: Subpart B
	Jsed oils
_	Dil-water emulsions or mixtures ubricants
_	Coolants
	Contaminated groundwater clean-up from petroleum sources Ised petroleum products
	Dil spill clean-up
	silge water
	Rinse/wash waters from petroleum sources
	nterceptor wastes
	Off-specification fuels
	Inderground storage remediation wastes
	ank clean-out from petroleum or oily sources
	Ion-contact used glycols
	queous and oil mixtures from parts cleaning operations
	Vastewater from oil bearing paint washes
	es Subcategory Subpart C andfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	olvent-bering wastes
	Off-specification organic product
	till bottoms
	yproduct waste glycol
	Vastewater from paint washes
	Vastewater from adhesive and/or epoxies formulation

Wastewater from organic chemical product operations

_i Tank clean-out from organic, non-petroleum sources
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
☐ Metals Subcatego
✓ Oils Subcatego
☐ Organics Subcategory
CTION 10: Additional Instruction
you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, iromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these incentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
CTION 11: Generator's Certification
e information contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the ove and attached description is complete and accurate to the best of my knowledge and ability to determine that no liberate or willful omissions of composition properties exist and that all known or suspected hazards have been sclosed. I certify that the materials tested are representative of all materials described by this document.
uthorized Signature :
inted Name / Title: RALPH JENKINS /
ES USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information:
ompliance Officer: Robert The Action of the Compliance Officer is the
ate: 6-24-09 Status: Approved Rejected
pproval Number : HOU-3397



LDR Notifications/Certifications

1.	1. Generator Information 2. Receiving Facility Information								
		N ENGINEERING PROCESSING, IN	ıc.	1	Name:	CES Environmental Services,	inc		
ŀ	Address: P.O. BOX 1872:				Address:	4904 Griggs Road			
	NATCHEZ, MS	39122		Į		Houston, TX 77021		·	
1	EPA ID No.: Manifest No.:		 	╀─	EPA ID No.:	TXD008950461			
<u> </u>							·		
3.	Waste Description at Point of Genera	ition				r			
Line Item	Waste Description	Hazardous Waste Codes	LDR Subcateg	ory	ww / nww	Underlying Hazardo	us Constituents [2	68.2(i)]	
1	OILY WATER W/ AROMATICS	D001	E		ww	NONE			
_2									
3			 		<u> </u>				
4 5									
				_					
4.	Waste Disposition		1		_				
Line	Subtitle C Exclusion Subsequent	to Point of Generation (if				268.45, Table 1 Technolog	•		
Item	applicab	le)	Current Di	spos	ition of Waste	debris (if applica	able)	Date Shipped	
1									
3									
4					_ _	<u> </u>			
5								··	
	Was the waste hazardous at the point Subtitle C regulation (including charac Yes Vo (If yes, this con	_	ewater treatmer				from		
6.	6. Waste the waste characterstic at the point of generation, treated onsite to remove the characterstic, and treatment residues then shipped to a Subtitle D land disposal facility? Yes V No (if yes, complete Certification 1 or 2.)								
7.	7. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste								
	under 261.3(f)(1) by treating it using an extraction or destruction technology in 268.45, Table 1? Yes V No (if yes, complete Certification 3.)								
	8. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(2) by receiving a "no-longer-contains" determinatin from EPA or the authorized state? Yes No (if yes, this constituents the 268.7(d)(1) one-time notification.)								
9.	Is the waste residue from treating KO6	1. K062 and/or F006 wastes in l	nigh-temperatur	e me	tals recovery (HTN	(R) units that 1) meets the ger	neric		
9. Is the waste residue from treating K061, K062 and/or F006 wastes in high-temperature metals recovery (HTMR) units that 1) meets the generic exclusion levels in 261.3(c)(2)(ii)(C), 2) does not exhibit any characterstics, and 3) is shipped to a Subtitle D land disposal facility? Yes No (if yes, complete Certification 4.)									
10.	Waste that has been treated to	remove a characterstic and me	ets underlying h	nazar	dous constituents	standards.	Applies to item	s:	
		aw that the waste has been trea							
	•	the hazardous characterstics an			•		Reference:		
	in 268.2(i) have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.						nd 268.9(d)		
11.	Waste that has been treated to	remove a characterstic but doe	es not meet und	erlvir	ng hazardous const	ituents	Applies to item	s:	
	Waste that has been treated to remove a characterstic but does not meet underlying hazardous constituents standards. Applies to items:					-			
		aw that the waste has been trea			•		Reference:		
		o remove the hazardous charact					268.7(b)(4)(v) a	nd 268.9(d)	
	. •	stituents that require further tre bmitting a false certification, inc							
				Dilly	or time and impris	omicii.			
12.	Debris that has been treated to	meet the alternative treatmen	t standards.				Applies to item:	5:	
		aw that the debris has been trea							
	40 CFR 268.45. I am aware the possibility of fine and i	that there are significant penal mprisonment.	ties for submitti	ng a	false certification,	including	Reference: 268.7(b)(4)(v) and 268.9(d)		
13.		•	vols for all name	ituon	its have been met.	without	Applies to item	5:	
	impermissible dilution and	aw that the generic exclusion level that no characterstic of hazard	ous waste is exh	ibite	d. I am aware that	there are	Reference:	,	
	significant penalties for su	bmitting a false certification, inc	unding the possi	pility	ortine and impris	onment.	268.7(b)(4)(v)/a	na 268.9(d)	
	Authorized Signature:	65 GP	-////	<u>//</u>	no	Date: 0/0	27/U		
Printed Name / Title: Kalph Denkins									



1. Base Pricing (including freight):
#.45/gallon
2. Contamination Limit (maximum limit before surchages apply):
TOC < 100,000
Phenoi < 50 ppm
Phenoi < 50 ppm Solids < 10°70
3. Surcharge Pricing:
standard per rate sheet (call Joe Camp before offloading to approve all surcharges)
4. Special Testing Requirements:
TOC, phenol, solids, metals, flash point (should be low)
5. Treatment and Handling Protocol:
heat to break emulsion and remove low flash point, recover organics, send water to who treatment
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):
chlor-d-tect on oil phase
8. Management for Product Recovered/Recycled (if applicable)
black oil market



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/25/2009

Dear James Wilson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3403

Expiration Date 6/25/2011

Generator: SAIA c/o Premium Environmental

Address: 29707 W. Hawthorne

Spring, TX 77386

Waste Information

Name of Waste: Soil contaminated with Rhoplex EI-2000 Emulsion

TCEQ Waste Code #: CESQ3191

Container Type:

Detailed Description of Process Generating Waste:

Leaking damaged drum from a shifted load

......

Color: Brown Odor: Ammonia

Odor: Ammonia pH: 7-8

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

DBMM

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cescavironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 Houston

SECTION 1: Gene	rator Information				
Company:	SAIA C/O Premiu	n Environmental			
Address:	29707 W Hawthor	NC			/// Catalonia (Marie Cara)
City, State, Zip:	Spring, Texas 7731	i i	**************************************		
Contact:	Kimberly White		Title:	Agent	72200
Phone No:	281-367-3515		Fax No:	281-419	4492
24/hr Phone:	800-838-970 7			4000	
U.S. EPA LD. No:	N/A		AND THE RESERVE		
State I.D.	N/A		SIC Code:		
SECTION 2: Billin	g Information - 🗌 S	iame as Above			
Company:	Milstead Environmer	mal, LLC			
Address:	29707 W Hawthorne				
City, State, Zip:	Spring, Texas 77386				
Contact:	Kimberly White	Tille:	Waste Dispos	al Coordin	afor
Phone No:	281-367-3515	Fax No:	281-419-4492	3	
Name of Waste: So		Waste Choplex TM EI-2000 Emulsi Ing Waste: Lenking Dama		shifted loa	i .
Physical State:	☐ Liquid	☐ Sludge	Powder		
-	⊠ Solid	Filter Cake	Combinatio	as a	
				##.	
Color: Brown	r	dor: Ammonia			
AND THE PERSON OF THE PERSON O	**				
Specific Gravity (w	ator=1\:>1	Density: 8-10 lbs/g	n İ		
entransación de acompany de la constante de la	······	**************************************	766 S	- , 176 -	
Does this material c	ontain any total pher	olic compounds? 🗌 Yes	⊠ No		
Does this material o	outain any para subs	litated phenolic compoun	ds? ☐ Yes 🛭	∑.No	
Layers:	Single-phase	Multi-phase			
Container Type:	⊠ Drum	П Tote	7 Truck		Other (explain)
Container Size:	***************************************	□ 1040		اسة	Otaci (c-paia)
Container Mac:	<u>95 gal</u>	440-9-in-spanners-reserve	<u> </u>		Galleting (Application of the Contraction of the Co
Frequency:	☐ Weekly	☐ Monthly ☐] Quarterly	\boxtimes	Yearly
Number of Units (c	mtainers): 95	Other:			-
Texus State Waste	-				
**	A Company of the Comp	CESQ3191		* * *	
Proper U.S. DOT S	suppling Azme:	NOO TYN LEEDINGG	wasic. Son coma	ципако WT	th Rhoplex TM F1-2000
		Emulsion	the lighting to the contract of the contract o	eggent on the second se	
Class: Na	UNNI	k: N/a	PG: N/s	1	RQ: N/a

Flash Point	pH	Reactive Sulfides	Reactive Cya	unides Solids
>200	<u>7-8</u>	<u>0</u> mg/l	<u>O</u> mg/l	100%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>O</u> mg/l	<u>O</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/I	<u>Q</u> mg/I

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Soil	90-100	%	
Rhoplex ™ El-2000 Emulsion	1-5	%	
debris; RCRA empty fiber drum	1-5	%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

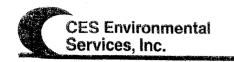
Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	×
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	<u>x</u>
Ignitability:	X

SECTION 9: Generator's Certification

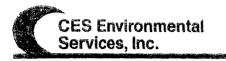
The information contained herein is based on 🔯 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature Kimber L. White	Date: 12 24 09
Printed Name/Title: Kimberly White pages for SAL	4 Clo Premium Environmental
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**************************************
Date: 6-15-19 Approved Rejected	
Approval Number:	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1: Dase Fricing (including freight):
\$55/dm
2. Contamination Limit (maximum limit before surchages apply):
Call Dan if non Conforming
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: Class (Solids landf.)
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Prod	uct Recovered/Recy	cled (if applicable)	:		
			·····	 	
8. Management	for Product Recover	ed/Recycled (if ap	plicable)		
į.					

MSDS.txt MSDS - USEN000000209676Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

RHOPLEX (TM) EI-2000 Emulsion

Revision date:03/07/2006

SupplierRohm and Haas Company 100 Independence Mall West Philadelphia, PA 19106-2399 United States of America

For non-emergency information contact: 215-592-3000 Emergency telephone number Spill Emergency215-592-3000 Health Emergency215-592-3000 Chemtrec800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS ComponentCAS-No.Concentration

Acrylic polymer(s)Not Hazardous46.0 - 47.0%

Residual monomersNot Required< 500.0PPM

Agua ammonia1336-21-6<= 0.2%

Water7732-18-553.0 - 54.0%

3. HAZARDS IDENTIFICATION Emergency Overview Appearance Formliquid Colourwhite Colourmilky Odourammonia

Hazard SummaryCaution!
Inhalation of vapor or mist can cause headache, nausea and irritation of the nose, throat and lungs.
May cause eye/skin irritation.

Potential Health Effects
Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes:Direct contact with material can cause the following: slight irritation Skin:Prolonged or repeated skin contact can cause the following: Page 1

MSDS.txt slight irritation Inhalation:Inhalation of vapor or mist can cause the following: irritation of nose, throat, and lungs headache nausea 4. FIRST AID MEASURES Inhalation: Move to fresh air. Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician. Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist. Ingestion:Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person. 5. FIRE-FIGHTING MEASURES Flash pointNoncombustible Lower explosion limitnot applicable Upper explosion limitnot applicable Thermal decompositionThermal decomposition may yield acrylic monomers. Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire. Specific hazards during fire fighting: Material can splatter above 100C/212F.

Dried product can burn. Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit. 6. ACCIDENTAL RELEASE MEASURES Personal precautions Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions. Environmental precautions
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water Methods for cleaning up Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.
7. Handling and storage **Handling** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas. Further information on storage conditions: Keep from freezing - product stability may be affected. STIR WELL BEFORE USE. Storage temperature:1 - 49 °C (34 - 120 °F)
Other data:Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required. 8. EXPOSURE CONTROLS / PERSONAL PROTECTION Exposure limit(s)
Exposure limits are listed below, if they exist.
Eye protection:safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.
Hand protection: The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves
Respiratory protection: A respiratory protection program meeting OSHA 1910.134
and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Page 2

```
MSDS.txt
Information.
                   For airborne concentrations up to 10 times the exposure limit,
wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) ammonia/methylamine cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.
Protective measures: Facilities storing or utilizing this material should be
equipped with an eyewash facility.
Engineering measures: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to
the current edition of Industrial Ventilation: A Manual of Recommended Practice
published by the American Conference of Governmental Industrial Hygienists for
information on the design, installation, use, and maintenance of exhaust
9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance
         Formliquid
         Colourwhite
          milky
         Odourammonia
        pH9.0 - 10.0
        Boiling point/range100 °C
Melting point/range0.00 °C
Flash pointNoncombustible
                                              ( 212.00\ ^{\circ}\text{F} ) Water ( 32.00\ ^{\circ}\text{F} ) Water
        Lower explosion limitnot applicable
        Upper explosion limitnot applicable
        Vapour pressure17.0 mmHg at 20 °C Relative_vapour density<1.0water
                                                         (68.00 °F)
                                                                                Water
        Water solubilityDilutable
        Relative density1.00 - 1.20
        Viscosity, dynamic500.000 mPa.s maximum
        Evaporation rate<1.00 Water
        Percent volatility53 - 54 %
                                                Water
NOTE: The physical data presented above are typical values and should not be
construed as a specification. 10. STABILITY AND REACTIVITY
        Hazardous reactionsNone known.
        Stable
        Materials to avoidThere are no known materials which are incompatible with
        this product.
        polymerizationProduct will not undergo polymerization.
11. TOXICOLOGICAL INFORMATION
No data are available for this material. The information shown is based on profiles of compositionally similar materials.
                                                > 5,000 mg/kg
bit > 5,000 mg/kg
        Acute oral toxicityLD50 rat
        Acute dermal toxicityLD50 rabbit
        Skin irritationrabbit May cause transient irritation.
```

Page 3

Eye irritationrabbit No eye irritation

There is no data available for this product.

12. ECOLOGICAL INFORMATION

EPAHO109000499

MSDS.txt

13. DISPOSAL CONSIDERATIONS Environmental precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Disposal Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations. 14. TRANSPORT INFORMATION DOT Not regulated for transport IMO/IMDG Not regulated (Not dangerous for transport) Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations 15. REGULATORY INFORMATION Workplace Classification This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200). This product is not a'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA Title III:Section 311/312 Categorizations (40CFR370):This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA. SARA Title III:Section 313 Information (40CFR372)
This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations. CERCLAInformation(40CFR302.4) Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Pennsylvania Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act. 16. OTHER INFORMATION Hazard Rating **HealthFireReactivity HMIS100** Legend ACGIHAmerican Conference of Governmental Industrial Hygienists BAcButyl acetate OSHAOccupational Safety and Health Administration PELPermissible Exposure Limit STELShort Term Exposure Limit (STEL): TLVThreshold Limit Value TWATime Weighted Average (TWA): |Bar denotes a revision from prior MSDS.

Page 4

MSDS.txt

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version: 1 . 5 Print Date:03/09/2006

Layout 209676

3404 K.P. Muszphy



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/26/2009

Dear James Wilson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3404

Expiration Date 6/26/2011

Generator: K.P. Murphy (TX Railroad Commission of Texas c/o milstead En

Address:

Quitman, TX 77386

Waste Information

Name of Waste: Lead Contaminated Soil

TCEQ Waste Code #: CESQ4191

Container Type:

cy box

Detailed Description of Process Generating Waste: abandoned area- area under a lead contaminated drum

Color: brown

Odor: none

pH: 7.6

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

gloves

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



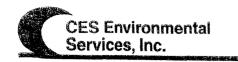
DB/MM 15 Houster

		ntal Services - Houst s Road, Houston, TX	•				Services - Port Ar		ty	
1		76-1460 Fax: (713)		1	2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460					
U.S. EPA ID N	lumber: TXD00	08950461 ISWR	Number: 30900	U.S. E		lumber: TXR0		NR Numbe		585
TCE	Q Industrial S	olid Waste Permit No	ımber: 30948							
SECTION 1:	Generator I	nformation								
Company:	K.P M urphy	(Texas Railroad C	ommission of T	exas agent Mi	Istead	Environmer	ıtal)			
Address:	Quitman Te									
City:			State	: Texas	***************************************	Zip:		······································		
Contact:	James Wilso	n		Title:		•		··········		
Phone Num	ber:	281 367-3535		Fax Nur	nber:	281 419-44	192			
24/hr Phone	e Number:	1 800 838-9707			•					
US EPA ID N	lo:	n/a								
State ID No:	:	n/a		SIC Cod	e:					
	m*****									
	Billing Infor		iame as Above							
Company: Address:	Milsteae En									
	29707 West	nawthorne				7 2				7306
City: Contact:	Spring James Wilso		State	: tx Title:		Zip:	***************************************			7386
Phone Num		2381 367-3535			nber:	281 419 44	92	·		
										
SECTION 3:	General Des	cription of the Wa	<u>ste</u>							
		i 1	1	- 1	ſ	- 1	τ_{\bullet}		9	\ A &
Name of Wa		soit Lead	conta.	minate	<u>a</u>	Soll	, TCL		<u>S 1</u>	3pm
Detailed De	scription of F	rocess Generating	: Waste:							
Unkown abo	oned - A	rea und	er lend	conta	im;	nated	drum			
Dhuminal Chai	ta. []				— <u> </u>					
Physical Sta		Liquid Solid	Sludg	e Cake	H	Powder Combination	on			
					1					
Color:	brown			Odor:	-	<i>N</i>	one		***********************	····
Specific Grav	vity (water=1	L):	=1			Density:	8x lbs/	gal		
Does this ma	aterial conta	in any total pheno	lic compounds	?	Yes		No			
Does this m	aterial conta	in any para substi	tuted phenolic	compounds?			es No			
is the Waste	e subject to t	he benzene waste	operation NES	HAP? (40 CFR	Part 61	1, Subpart F	·F) 🗀	Yes	П	No
			•	•			•			
	" if your was	re comains benzer		,		,				2834
Answer "Yes	s" if your was 2813			2821	2822	2823	2824	2833		
Answer "Yes 2812	2813	2816	2819	2821 2843	2822 2844	2823 2851	2824 2861	2833 2865		2869
Answer "Yes 2812 2835	2813 2836	2816 2841	2819 2842	2843	2844	2851	2861	2865	;	2869 2911
Answer "Yes 2812	2813 2836 2874	2816 2841 2876	2819						;	2869 2911
Answer "Yes 2812 2835 2873	2813 2836 2874	2816 2841 2876 4959	2819 2842 2879	2843 2891	2844	2851	2861	2865	;	
Answer "Yes 2812 2835 2873 3312	2813 2836 2874 4953	2816 2841 2876 4959	2819 2842 2879 9511 Multi-phase	2843 2891	2844 2892	2851 2893	2861	2865	;	

		us Waste" per plete, sign and			Yes Your Yes		No ched hereto		
	tic for Toxic N	D001 (Ignitabi	☐ D004 ☐ D010	□D011	□ D006	D003 (Read		□D009	
		d waste or mix st ALL applicab		?	☐ Yes	A	No		
40 CFR 261.	33(e) or (f)?	luct or spill cle			"U" or "P" wa No	iste code un	der	· · · · · · · · · · · · · · · · · · ·	
Proper US E	Waste Code	Name:	M CI	CESQ LSS I	4191 lead co NA	ntam	inate	ed So	: 1
Class:	NA	UN/NA:	NA_	PG:	WA	_RQ:	PA		
	Point	pł	···		ve Sulfides		Cyanides	Sol	,
<u></u>	200	7.0		MA	<u>mg/l</u>	MA	mg/l	100	%
AVA	Grease mg/l	0 TO	mg/i	c	Zinc 	Cot	per mg/l	Nic O	mg/l
	CON	Chemical Data		E		CONCENT			UNITS
11	e waste cons	ists of the follo 99.9 soil	wing materia	IIS		Ranges are a		M	PPn

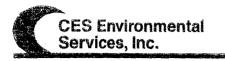
			e of special protective	equipment, please ex	plain.		
	ents, notes	pporting Documen , data and/or analy Alamo Analytical I	sis attached to this for	n as part of the wast	e		
SECTION 7: Ir Please list ALL		lities bilities (if any):			e entre en en en en en en en en en en en en en		\$
none							
Laboratory an	alysis of the	Knowledge Docum e hazardous waste generator knowle	characteristics, listed b	elow, WAS NOT PER I	FORMED		
TCLP Metals:		TCLP LEAD					
TCLP Volatiles	:	N/A					
TCLP Semi-Vo	latiles:	N/A					
Reactivity:		N/A					
Corrosivity:		N/A					
Ignitability:		N/A					
Facilities)	s this materi If 'Yes', c	al a wastewater or w omplete this section			YES	☑ NO	reatment
P	LEASE CHEC	K THE APPROPRIATE	BOX. IF NO APPROPRIA	IE CATEGORY, GO TO	IHE NEXT	PAGE.	
N C A S W C V C V C V C V C V C V C V C V C V C	pent electro Metal finishin Chromate wa ir pollution pent anodiz Chaste liquid Cyanide-cont Vaste liquid Cyanide-cont Vaste acids a Cleaning, rins Vibratory del	plating baths and/or ng rinse water and slustes control blow down water ing solutions wastewaters mercury aining wastes greate and bases with or with sing, and surface prejourring wastewater	idges ater and sludges r than 136 mg/l		hating ope	rations	
	Jsed oils bil-water em ubricants coolants contaminate Jsed petrole bil spill clean	ulsions or mixtures d groundwater clean um products	-up from petroleum soul	rces			

Interceptor wastes	
Off-specification fuels	
Underground storage remediation waste	
☐ Tank clean-out from petroleum or oily sources	
☐ Non-contact used glycols	
 Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes 	
- wostewater from on bearing paint washes	
Organics Subcategory: Subpart C Landfill leachate	
Contaminated groundwater clean-up from non-petroleum sources	
Solvent-bearing wastes	
U Off-specification organic product	
☐ Still bottoms	
☐ Byproduct waste glycol	
Wastewater from organic chemical product operations	
Tank clean-out from organic, non-petroleum sources	
Talk Oction of No. 19 per oreal sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)	
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in	
excess of the values listed below, the waste should be classified in the metals subcategory.	
Cadmium: 0.2 mg/L	
Chromium: 8.9 mg/L	
Copper: 4.9 mg/L	
Nickel: 37.5 mg/L	
Works 513 light	
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, coppe or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory	r,
SECTION 10 Additional Instructions	
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.	n,
SECTION 11: Generator's Certification	
The information contained herein is based on generator knowledge and/or analytical data.	
hereby certify that the above and attached description is complete and accurate to the best of	
my knowledge and ability to determine that no deliberate or willful omissions of compostion	
properties exist and that all known or suspected hazards have been disclosed. I certify that the	
materials tested are representative of all materials described by this document.	
Authorized Signature: Janes Welson Date: 6/24/200)9
Printed Name/Title: James Wilson	
Printen Matter 14tte: 13thes W 1800	
CECTICE ONLY (DO NOT WRITE IN THE CRACE)	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
la man (V h, M) and	
Compliance Officer: Lewis Mary Compliance Officer:	
Date: <u>6-26-09</u>	
Approval Number:	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Dase Fricing (including freight):
\$90/cy
· ·
2. Contamination Limit (maximum limit before surchages apply):
Leuc >5PPM
3. Surcharge Pricing:
None
4. Special Testing Requirements:
None - Analysis Attached to Profik
5. Treatment and Handling Protocol:
Class 1 Box to Ian A. 11
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	
o. Management for Fronze Recovered in applicable)	





ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 14-Aug-08

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

CLIENT:

RRC District 5 & 6

Project:

J.D.Grey- (06-54008)

Lab Order:

0808042

Alamo Lab ID	Client ID	Matrix	Analyses		Collection Date	Result	Rpt I	Limit Units	DF
TestName: LEAD, To 0808042-01A	CLP 7 A-Under the DRUM	FestNo: SW131 Solid	1/6010B Lead	Date Analyzed	12-Aug-08 08/06/2008	< 0.05	0.05	Initials: JOL mg/L	1
TestName: LEAD, To	otal 1	TestNo: SW601	0B	Date Analyzed	11-Aug-08		*	Initials: JOL	
0808042-02A	B-1 Under the DRUM	Solid	Lead		08/06/2008	6.57	1.5	mg/Kg	1
0808042-03A	B-2 3' West	Solid	Lead		08/06/2008	11.9	1.5	mg/Kg	1
0808042-04A	B-3 3' North	Solid	Lead		08/06/2008	8.72	1.5	mg/Kg	1
0808042-05A	B-4 3' South	Solid	Lead		08/06/2008	11.1	1.5	mg/Kg	1
0808042-06A	B-5 3' East	Solid	Lead		08/06/2008	9.8	1.5	mg/Kg	1

AUG 25 2008
AUG 25 2008
AUG 25 2008
AUG 25 2008
Approved by:

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.





ALAMO ANALYTICAL LABORATORIES, LTD.

<1.5

Date: 14-Aug-08

10526 Gulfdale · San Antonio, Texas 78216-3601 · (210) 340-8121

CLIENT: Work Order:

Lead

RRC District 5 & 6

0808042

Project:

J.D.Grey- (06-54008)

QC SUMMARY REPORT

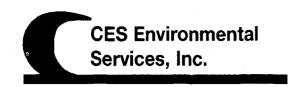
%REC %REC RPD Low - High Limit SPK value LCS LCSD RPD % RPD Limit MS MSD Limit Analyte TestName: LEAD, TCLP Batch ID: 1311_PB-8/12/2008 Test Code: SW1311/6010B ICP 080812G Units: mg/L Analysis Date: 08/12/2008 4:00:00 PM Prep Date: 08/08/2008 Run ID: < 0.05 97.0% 102.0% 20.0 75 - 125 Lead 5.0 Batch ID: PB_R_S-8/11/2008 TestName: LEAD, Total Test Code: SW6010B Run ID: ICP_080811A Units: mg/Kg Analysis Date: 08/11/2008 11:00:00 AM Prep Date: 08/08/2008

3.0

4.0

99.0%

RECEIVED
R.R.C. OF TEXAS
AUG 25 2000
OIL & GAS DIVISION
KILCHORE, TEXAS



Material / Product Approval Letter

Date 6/29/2009

Dear Billy LeBlanc

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3405

Expiration Date 6/29/2011

Producer: Ethyl Corporation

Address: 1000 N. South Street Pasadena, TX 77501

Material / Product Information

Name of Material / Product Spent A150 Solvent

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Plant Activities

Color: yellowish brown Odor: solvent mineral spirit pH: N/A

Physical State:

Incompatibilities: OXIDIZERS

Safety Related Data/Special Handling:

LEVEL C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 Product Hourton 3405

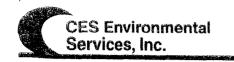
SECTION 1: Materi	al Producer Information	<u> </u>			
Company:	Ethyl Corporation				
Address :	1000 N. South Street	P. O. Box 472			
City, State, Zip:	Pasadena TX 77501				
Contact :	Billy LeBlanc		Title :		
Phone No :	(713) 740-8332		Fax :	713-740-8364	
24 / HR Phone :					
U.S EPA I.D No:	TXD008096158				
State I.D :	30465		SIC Code		
SECTION 2: Billing Company:	Information Ethyl Corporation				
Address :	1000 N. South Street	P. O. Box 472			· - <u></u>
City, State, Zip:	Pasadena TX 77501				
Contact :	Billy LeBlanc		Title :		
Phone No :	(713) 740-8332		Fax:	713-740-8364	
SECTION 3: General	al Description of the Ma	terial / Product			
Name of Mateiral	/ Product : Spent A15	0 Solvent			
Detailed Descrip	•		ing the Material / Produc	ct:	
Detailed Descrip Plant Activities	•		ing the Materiał / Produc	ct:	
	•		ing the Materiał / Produc	ct:	
Plant Activities	tion of the Process G	enerating or Produc		ct:	
Plant Activities	tion of the Process G Liquid Solid	enerating or Produc	Powder	ct: solvent miner	ral spirit
Plant Activities Physical State:	tion of the Process G ✓ Liquid Solid	enerating or Produci Sludge Eliter Cake	PowderCombination		al spiritlbs / gal
Plant Activities Physical State: Color: Specific Gravity	tion of the Process G ✓ Liquid Solid	enerating or Product Sludge Filter Cake yellowish brown .96-1	Powder Combination Odor:	solvent miner	
Plant Activities Physical State: Color: Specific Gravity (Does this material	tion of the Process G Liquid Solid Water=1):	enerating or Product Sludge Filter Cake yellowish brown .96-1	Powder Combination Odor: Density: Yes No	solvent miner	
Plant Activities Physical State: Color: Specific Gravity (Does this material	Liquid Solid (Water=1):	enerating or Product Sludge Filter Cake yellowish brown .96-1	Powder Combination Odor: Density: Yes ✓ No nds?	solvent miner	
Plant Activities Physical State: Color: Specific Gravity (Does this material	Liquid Solid Water=1): contain any total pheno contain any para substit	enerating or Product Sludge Filter Cake yellowish brown .96-1 lic compounds?	Powder Combination Odor: Density: Yes ✓ No nds?	solvent miner 8 ✓ No	
Plant Activities Physical State: Color: Specific Gravity (Does this material Does this material Layers:	Liquid Solid Water=1): contain any total pheno contain any para substit	enerating or Product Sludge Filter Cake yellowish brown .96-1 lic compounds? tuted phenolic compou	Powder Combination Odor: Density: Yes ✓ No nds? ☐ Yes	solvent miner 8 ✓ No	
Plant Activities Physical State: Color: Specific Gravity (Does this material Does this material Layers: Container Type:	Liquid Solid Water=1): contain any total pheno contain any para substit Single-Phas Drum 5000	enerating or Product Sludge Filter Cake yellowish brown .96-1 lic compounds? tuted phenolic compou	Powder Combination Odor: Density: Yes No nds? Yes Truck Other (ex	solvent miner 8 ✓ No	
Plant Activities Physical State: Color: Specific Gravity Does this material Does this material Layers: Container Type: Container Size:	Liquid Solid Water=1): contain any total pheno contain any para substit Single-Phas Drum 5000 : 2	Sludge Sludge Filter Cake yellowish brown .96-1 lic compounds? tuted phenolic compou	Powder Combination Odor: Density: Yes V No nds? Yes Truck Other (ex	solvent miner 8 ✓ No	lbs / gal

Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
>140	N/A	BRL mg/l	BRL mg/l	<1 %
Oil and Grease	TOC	Zinc	Copper	Nickel

SECTION 4: Physical and Chemical Data

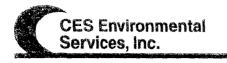
COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
A 150 SOLVENT	98-99.9	%
H619 RESIDUE	.1-1	%
DIRT & RUST SCALE	.15	%

	71 100 00E1E111		•	0 00.0	70
	H619 RESIDUE			.1-1	%
	DIRT & RUST SCALE			.15	%
SECTION 5: Safety Related Data					
f the handling of this material LEVEL C	/ product requires the use of	special protective equip	oment, plea	se explain.	
SECTION 6: Attached Supporting	Documents				
List all documents, notes, data MSDS, CES LAB EVALUATION	a, and/or analysis attached to t	this form as part of the	material / p	roduct profile.	
SECTION 7: Incompatibilities					
Please list all incompatibilities DXIDIZERS	s (if any):				
SECTION 8: Material Producer's C	ertification				
above and attached description deliberate or willful omissions	rein is based on generator in is complete and accurate to of composition properties existerials tested are representati	the best of my knowled st and that all known o	dge and abi	d hazards have b	that no
Authorized Signature :	4//	Da	ite :	6/26/2009	
Printed Name / Title: DEWA	NNE KAY / Epvironmental Specia	alist			
CES USE ONLY (DO NOT WR	ITE IN THIS SPACE)		Process Fa	acility Information	1:
Compliance Officer : Prabh	akar Thangudu				
Date: Paluet	Status: Approved	Rejected			
Approval Number :	HOU-3405				



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Dase Pricing (including freight):
CES pays \$.20/gallon for product
2. Contamination Limit (maximum limit before surchages apply):
< 3°70 50/105,
∠ 1º70 water
3. Surcharge Pricing:
if water or excessive solids are present call Joe Camp
A Special Testing Populyoments:
4. Special Testing Requirements:
centrifials 2 bin ont
5. Treatment and Handling Protocol:
material can be sold as unrestricted light ends,
material can be sold as unrestricted light ends, material is combustible so use necessary PPE and handle
with one
6. Treated Wastewater Discharge Subcategory:
Contractor Contractor
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Prod	luct Recovered/Rec	ycled (if applicable):		
8. Management	for Product Recove	red/Recycled (if appl	icable)	
Í				



ExxonMobil Chemical Company









ExxonMobil Chemical Company



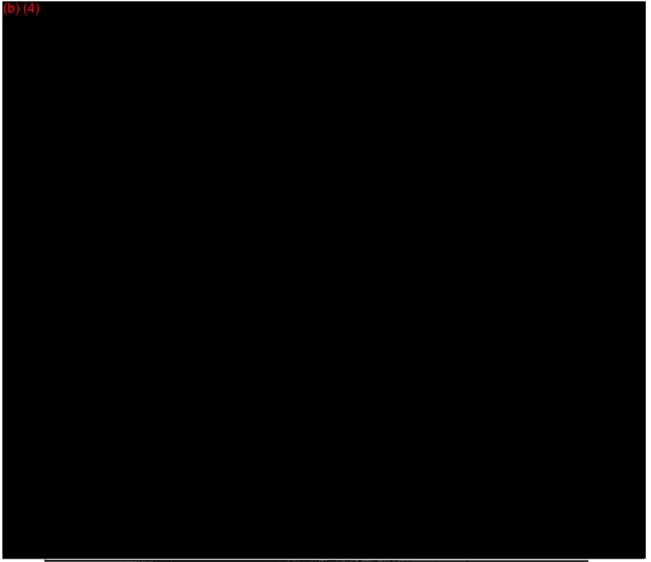


ExxonMobil Chemical Company



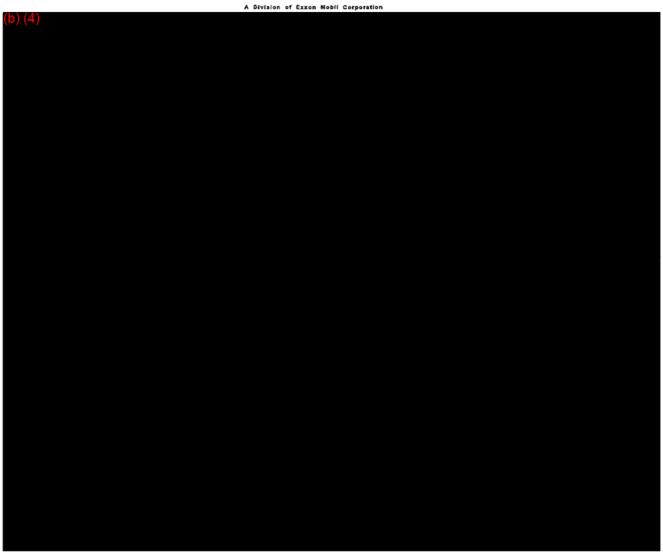


ExxonMobil Chemical Company



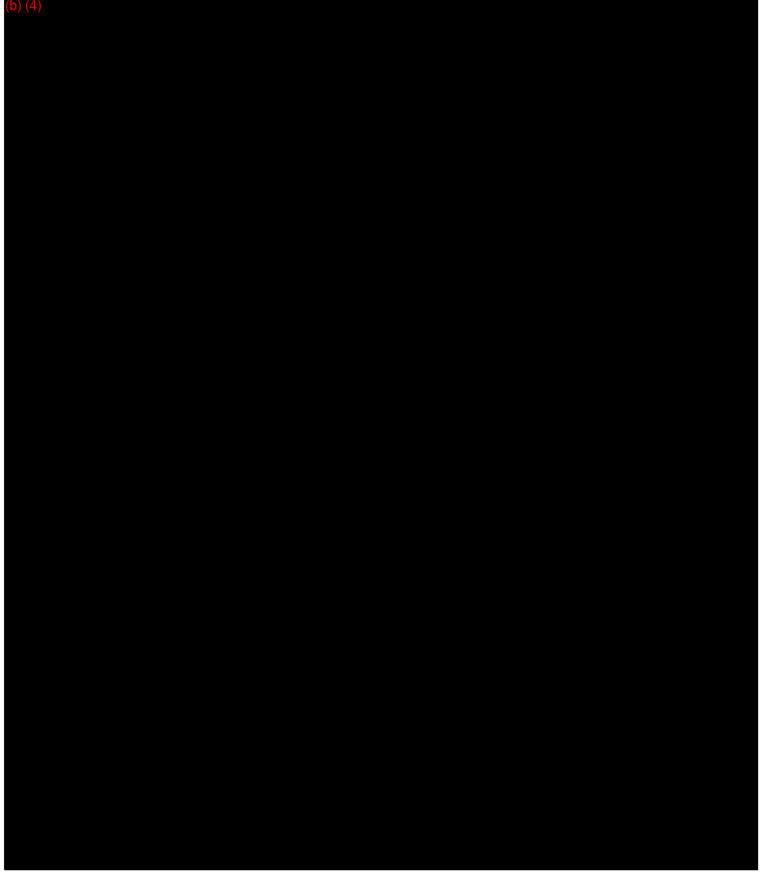


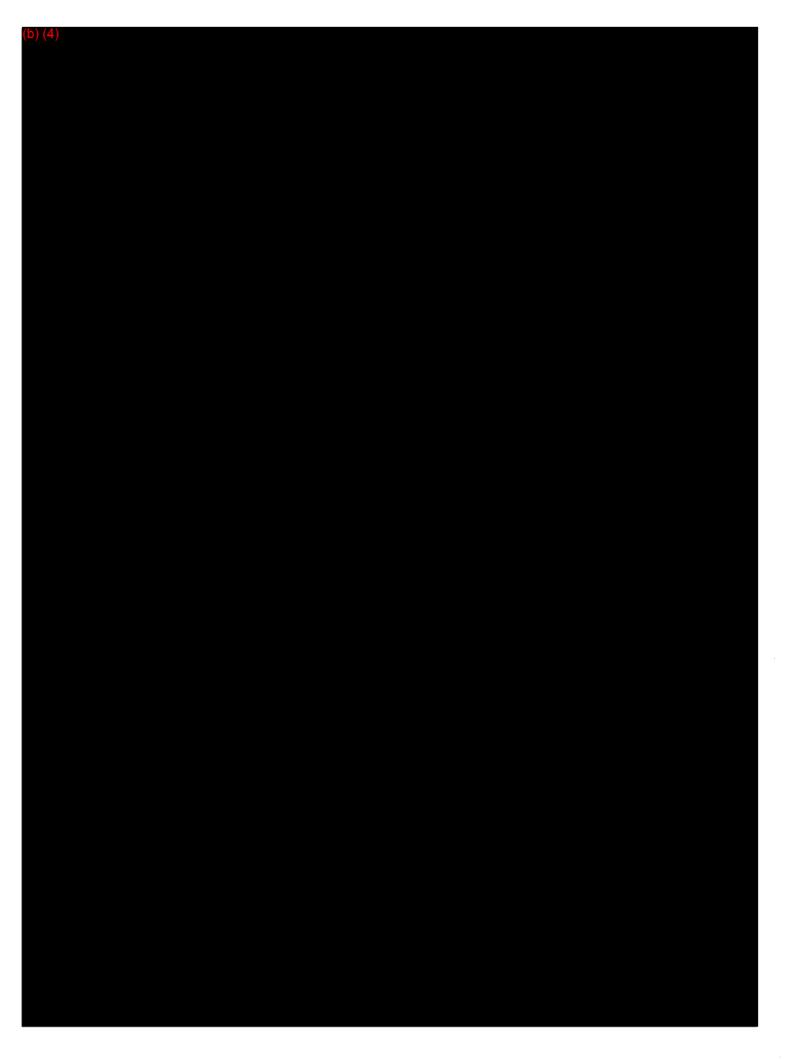
ExxonMobil Chemical Company

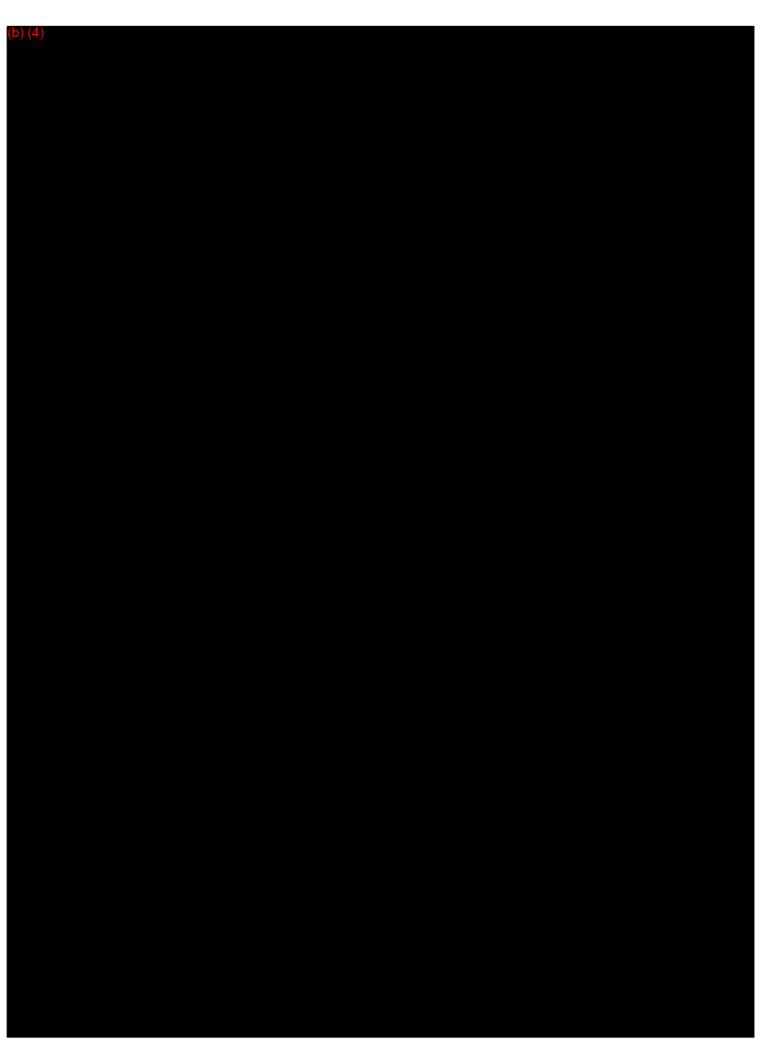


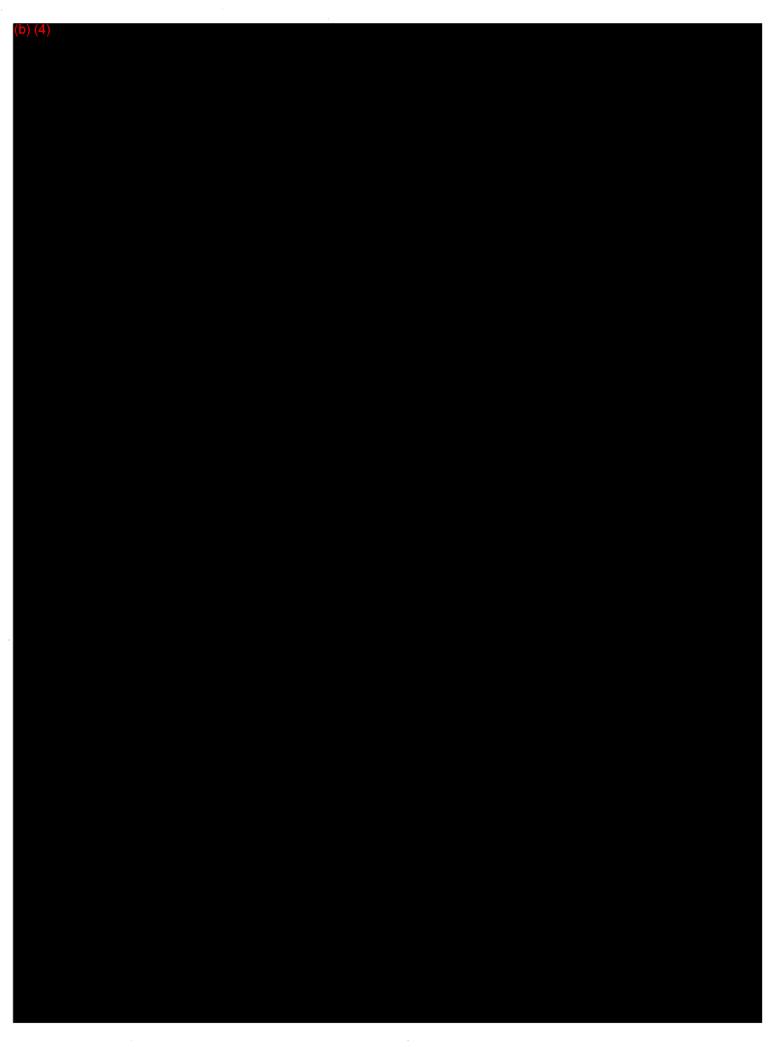


Material Safety Data Sheet



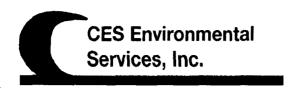








*** END OF MSDS ***



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: 8-10

Waste Pre-Acceptance/Approval Letter

Date 7/2/2009

Dear Bill Miller

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3406

Expiration Date 6/29/2011

Generator: San Jacinto College District- South Campus

Address: 13725 Beamer Rd.

Houston, TX 77098

Waste Information

Name of Waste: Class 2 Solids (Thermal storage tank solids)

TCEQ Waste Code #: CESQ5192

Container Type:

Detailed Description of Process Generating Waste:

removal of solids that precipitated out of city water stored in tank

Color: brown Odor: none

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



U.S. EPA ID N	4904 Grigg Phone (713) 6	ental Services - Hous s Road, Houston, TX 76-1460 Fax: (713) 08950461 ISWR	77021	CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585						
1 '		olid Waste Permit N								
SECTION 1.	Computation	-formation								
Company:	Generator I	College district-So	uth Campus		•					
Address:	13735 Bean		utii campus				-			
City:	Houston	ici ilidad	State:	TX	Zip:			77098		
Contact:	Bill Miller			Title:	- •					
Phone Num	ber:	(281)478-2736		Fax Number:	(281)478-2731					
24/hr Phone	e Number:			_						
US EPA ID N	lo:	N/A								
State ID No:	;	N/A		SIC Code:						
Company:		College District	Same as Above		<u> </u>					
Address:	4624 Fairm	ont Pkwy.			7:			77504		
City: Contact:	Pasadena Bill Miller		State:	TX Title:	_Zip:			77504		
Phone Num		(281) 478-2736			(281) 478-2731					
i none italii	DCI.	(201) 470 2730			(201) 170 2702			·		
SECTION 3:	General Des	cription of the Wa	aste_							
Name of Wa	aste:	Class 2 solids (the	ermal storage tank s	olids)						
Detailed De	scription of	Process Generatin	g Waste:							
i = .										
			1 1						` ,	
Tema	valor	Solias IV	nat precip	rtated	OUT OF C	Hywo	TER S	TURAN IN	Trank	
			_ ` '	rtated		Hy wo	TER S	stunged in	rtank	
Physical Sta	ite:	Liquid	✓ Sludge		Powder	Hy wo	TER S	orchaed in	rtank	
			_ ` '			Hy w	TER S	TURROL IN	rtunk	
	ite:	Liquid	✓ Sludge		Powder	Hy w	TER S	oTuzad ir	rtank	
Physical Sta	ite: [Liquid Solid	✓ Sludge	e ☑ Odor:	Powder Combination			<u>отига</u> оl ir	n-tonk	
Physical Sta Color: Specific Gra	brown	Liquid Solid	Sludge Filter Cake	e ☑ Odor:	Powder Combination None Density: Nor			otozaol ir	n-tonk	
Physical Sta Color: Specific Gra Does this m	brown wity (water=	Liquid Solid 1): in any total phen	Sludge Filter Cake	e	Powder Combination None Density: Nor			otozeol ir	n-tonk	
Physical Sta Color: Specific Gra Does this m	brown wity (water= naterial conta	Liquid Solid 1): in any total phenin any para subst	Sludge Filter Cake 1.09 olic compounds?	e	Powder Combination None Density: Nor Nor Yes	ne lbs/g	gal		n-tonk	
Physical Sta Color: Specific Gra Does this m Does this m	brown brown wity (water= naterial conta	Liquid Solid 1): In any total phenin any para subst	Sludge Filter Cake 1.09 olic compounds? ituted phenolic com	e	Powder Combination None Density: Nor No Yes 61, Subpart FF)	ne lbs/g ☑ No			n-tank	
Physical Sta Color: Specific Gra Does this m Does this m	brown wity (water= aterial conta	Liquid Solid 1): In any total phenoin any para substithe benzene wasteste contains benze	Sludge Filter Cake 1.09 olic compounds?	e	Powder Combination None Density: Nor No Yes Fig. 1, Subpart FF) cility is one of the	ne lbs/g ☑ No ☐ e following:	gal Yes ▽		n-tonk	
Physical Star Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes	brown wity (water= material containaterial contains e subject to so if your water in the your water in the your water i	Liquid Solid 1): In any total phenoin any para substitute benzene waste ste contains benzee 3 2816	Sludge Filter Cake 1.09 olic compounds? ituted phenolic come e operation NESHAP ene AND if the SIC co	e	Powder Combination None Density: Nor No Yes 61, Subpart FF) acility is one of the 2 2823	ne lbs/g No e following: 2824	gal		n-tonk	
Physical Star Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812	brown wity (water= material containaterial contains" if your water is 2836	Liquid Solid 1): In any total phenoin any para substite benzene waste ste contains benze 2816 2841	Sludge Filter Cake 1.09 colic compounds? ituted phenolic com e operation NESHAP ene AND if the SIC co 2819 282:	e	Powder Combination None Density: Nor No Yes 61, Subpart FF) acility is one of the 2 2823 4 2851	ne lbs/g ☑ No ☐ e following:	yal Yes ✓ 2833] No 2834	n-tonk	
Physical Star Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835	brown wity (water= material containaterial contains if your water is a second in thes	Liquid Solid 1): Inin any total phenoin any para substite benzene wasteste contains benzes 2816 2841 2876	Sludge Filter Cake 1.09 colic compounds? ituted phenolic come e operation NESHAP ene AND if the SIC co 2819 282: 2842 2843	e	Powder Combination None Density: Nor No Yes 61, Subpart FF) acility is one of the 2 2823 4 2851	ne lbs/g No e following: 2824 2861	Yes ✓ 2833 2865	No 2834 2869	n-tonk	
Physical Star Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835 2873	brown vity (water= naterial contanaterial c	Liquid Solid 1): Linin any total phenoin any para substate contains benze wastate contains benze wastate at 2816 2841 2876 34959	Sludge Filter Cake 1.09 colic compounds? ituted phenolic com e operation NESHAP ene AND if the SIC co 2819 282: 2842 2843 2879 289:	e	Powder Combination None Density: Nor No Yes 61, Subpart FF) acility is one of the 2 2823 4 2851	ne lbs/g No e following: 2824 2861	Yes ✓ 2833 2865	No 2834 2869	n-tank	
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835 2873 3312	brown wity (water= material contains if your water is 2836 2874 4953	Liquid Solid 1): In any total phenoin any para substitute benzene waste contains benze 3 2816 2841 2876 3 4959 gle-phase	Sludge Filter Cake 1.09 colic compounds? ituted phenolic com e operation NESHAP ene AND if the SIC co 2819 282: 2842 2843 2879 289: 9511	e	Powder Combination None Density: Nor Yes 61, Subpart FF) acility is one of the 2 2823 4 2851 2 2893	ne lbs/g No e following: 2824 2861	Yes ✓ 2833 2865	No 2834 2869	n-tank	

		us Waste" per plete, sign and c			Yes		No ached hereto		
If "Yes", Is Characterist	_	D001 (Ignitabl Ietals:	e)	=	□ D006	D003 (Rea		☐ D009	
Characterist	c for Toxic O	organics: D012	t hru D043 (p	lease list a	li that apply)				
		d waste or mix		?	☐ Yes	;	No		
40 CFR 261.3	3(e) or (f)?	luct or spill cleast	☐ Y	<u>-</u>	a "U" or "P" wa] No	aste code ur	nder		
Texas State	Waste Code	Number:		CESQ5192			-		
Proper US De Class:	OT Shipping	Name: _UN/NA:	Non-RCRA/I	Non-DOT R	egulated Mater	rial _RQ:	NA		
Flash	Point	pl		React	ive Sulfides	Reactive	Cyanides	So	lids
>1	50	8-1		BRL	mg/l	BRL	mg/l	50-90	%
Oil & (Grease	ТО	<u>c</u>		Zinc	Co	pper	Nic	kel
<1500	mg/l	1000	mg/l	NA	<u>mg/l</u>	NA	mg/l	NA	mg/l
SECTION 4:		Chemical Data	our .		T	CONCENT	FDA YOUN		LIBUTE
The		APONENTS TAE		olc .	 	CONCENT			UNITS
1116		ists of the follo olids (rust, Ets.)		115	 	Ranges are 50-			or %
		Water			<u> </u>	10-			%
							··		

	Iing of this waste requires the use of special protective equipn	ment, please explain.	
	Attached Supporting Documents uments, notes, data and/or analysis attached to this form as package. Analytical 09030051.02	part of the waste	
	Incompatibilities ALL incompatibilities (if any):		
Laboratory	Generator's Knowledge Documentation analysis of the hazardous waste characteristics, listed below, a the following generator knowledge:	WAS NOT PERFORMED	
TCLP Metals TCLP Volatil TCLP Semi-\ Reactivity: Corrosivity:	les: Volatiles:		
Ignitability: SECTION 9: 1 Facilities)	Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Ti Is this material a wastewater or wastewater sludge? If 'Yes', complete this section.	reatment Requirements for Centralized Waste Treatr	ment
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CAT ategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters	TEGORY, GO TO THE NEXT PAGE.	
	Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electron Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipmen	, , , , , ,	
Oils Subcated	gory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources		



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$75.00/yard plus Freight
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
Tests to be redirected
5. Treatment and Handling Protocol:
Redircted to landfill Class 2 solids
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):							
8. Management for Product Recovered / Recycled (if annlicable)							
8. Management for Product Recovered/Recycled (if applicable)							
8. Management for Product Recovered/Recycled (if applicable)							
8. Management for Product Recovered/Recycled (if applicable)							
8. Management for Product Recovered/Recycled (if applicable)							
8. Management for Product Recovered/Recycled (if applicable)							
8. Management for Product Recovered/Recycled (if applicable)							

Laboratory Analysis Report Job ID: 09030051

Total Number of Pages: 29



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

San Jacinto College District - South TES & Central TES

Report To:

Client Name:

Nalco Company

Attn:

Bill R. Fritsche

Sample Collected By: Bill Fritsche

Date Collected: 03/03/09 - 03/06/09

Client Address: City, State, Zip:

7705 Highway 90-A Sugarland, Texas, 77478

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

STES-SJCD-S1&S2

Liquid

09030051.01

CTES-SJCD-C1&C2

Liquid

09030051.02

STES-SJCD Duplicate Samples S3, S4,

Liquid

09030051.03

S5, S6

Sonia West

Released By: Sonia West

Title:

Senior Project Manager

Date:

3/12/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 03/03/2009 15:45

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Post-Wt

ppm

RPD

surr

TNTC

Т

Pre-Wt

RegLimit

RptLimit

Post Weight

Qualifier

Surrogate

Time

parts per million

Previous Weight

Regulatory Limit

Reporting Limit

Relative Percent Difference

Too numerous to count



Job ID: 09030051

Date:

3/12/2009

General Term Definition

Back-Wt BRL

Back Weight Below Reporting Limit colony-forming units

cfu Conc. D.F.

Concentration **Dilution Factor** Front Weight

Front-Wt LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

мs

Matrix Spike

MSD

Matrix Spike Duplicate

MW

M1

Molecular Weight

Qualifier Definition

Matrix Spike/Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference.

S1

Surrogate recovery is above control limit.

Job ID: 09030051

Date 3/12/2009

Client Name:

Nalco Company

Attn: Bill R. Fritsche

Project Name:

San Jacinto College District - South TES & Central TES

Client Sample ID:

STES-SJCD-S1&S2

Date Collected: Time Collected:

03/03/09

10:00

Sample Matrix

Job Sample ID:

09030051.01

Liquid

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point) Ignitability	>150	۰ ۴	1			03/10/09 08:00	SG
SW-846 7 . 3	Reactive Cyanide Reactive Cyanide	BRL	mg/L	1	25		03/05/09 15:00	KS
SW-846 7.3	Reactive Sulfide Reactive Sulfide	BRL	mg/L	1	25		03/05/09 08:30	KS
SW-846 9040C	Corrosivity, pH pH	8.60	s.u.				03/04/09 10:00	RK

Job ID: 09030051

Date 3/12/2009

Client Name:

Nalco Company

Attn: Bill R. Fritsche

Project Name:

San Jacinto College District - South TES & Central TES

Client Sample ID:

CTES-SJCD-C1&C2

Date Collected: Time Collected: Other Information:

03/03/09

13:00

Job Sample ID: 09030051.02 Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)							
	Ignitability	>150	°F	. 1			03/10/09 08:00	SG
SW-846 6010C	TCLP Metals							
	Arsenic	BRL	mg/L	1	0.04	5.0	03/05/09 18:57	TK
	Barium	0.068	mg/L	1	0.04	100.0	03/05/09 18:57	TK
	Cadmium	BRL	mg/L	1	0.04	1.0	03/05/09 18:57	TK
	Chromium	BRL	mg/L	1	0.04	5.0	03/05/09 18:57	TK
	Lead	BRL	mg/L	1	0.04	5.0	03/05/09 18:57	TK
	Selenium	BRL	mg/L	1	0.1	1.0	03/05/09 18:57	TK
	Silver	BRL	mg/L	1	0.04	5.0	03/05/09 18:57	TK
SW-846 7.3	Reactive Cyanide							
	Reactive Cyanide	BRL	mg/L	1	25		03/05/09 15:00	KS
SW-846 7.3	Reactive Sulfide							
	Reactive Sulfide	BRL	mg/L	1	25		03/05/09 08:30	KS
SW-846 7470A	TCLP Metals, Mercury		-					
	Mercury	BRL	mg/L	1	0.0005	0.2	03/05/09 17:02	TK
SW-846 8081A	TCLP Pesticides							
	Chlordane	BRL	ug/L	• 1	25	30	03/09/09 15:04	PNS
	Endrin	BRL	ug/L	1	2.5	20	03/09/09 15:04	PNS
	g-BHC	BRL	ug/L	1	2.5	300	03/09/09 15:04	PNS
	Heptachlor	BRL	ug/L	1	2.5	8	03/09/09 15:04	PNS
	Heptachlor epoxide	BRL	ug/L	1	2.5	8	03/09/09 15:04	PNS
	Methoxychlor	BRL	ug/L	1	2.5	10000	03/09/09 15:04	PNS
	Toxaphene	BRL	ug/L	1	25	500	03/09/09 15:04	PNS
	Decachlorobiphenyl(surr)	77	%	1	10-126		03/09/09 15:04	PNS
	Tetrachloro-m-xylene(surr)	71.3	%	1	12-106		03/09/09 15:04	PNS
SW-846 8151A	TCLP Herbicides							
	2,4,5-TP	BRL	ug/L	1	25	1000	03/09/09 19:18	PNS
	2,4-D	BRL	ug/L	1	25	10000	03/09/09 19:18	PNS
	DCPAA(surr)	90.3	%	1	38-120		03/09/09 19:18	PNS
SW-846 8260B	TCLP VOC							
	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6	03/05/09 15:13	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5	03/05/09 15:13	HW
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5	03/05/09 15:13	HW
	Benzene	BRL	mg/L	1	0.13	0.5	03/05/09 15:13	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5	03/05/09 15:13	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70	03/05/09 15:13	HW
	Chloroform	BRL	mg/L	1	0.13	6	03/05/09 15:13	HW
	MEK	BRL	mg/L	1	0.13	200	03/05/09 15:13	HW

Job ID: 09030051

Date 3/12/2009

Client Name:

Nalco Company

Attn: Bill R. Fritsche

Project Name:

San Jacinto College District - South TES & Central TES

Client Sample ID:

CTES-SJCD-C1&C2

Date Collected: Time Collected:

03/03/09

13:00

Other Information:

Job Sample ID:	09030051.02
Sample Matrix	Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 8260B	TCLP VOC							
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7	03/05/09 15:13	HW
	Trichloroethylene	BRL	mg/L	1	0.13	0.5	03/05/09 15:13	HW
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2	03/05/09 15:13	HW
	Dibromofluoromethane(surr)	110	%	1	70-130		03/05/09 15:13	HW
	p-Bromofluorobenzene(surr)	101	%	1	70-130		03/05/09 15:13	HW
	1,2-Dichloroethane-d4(surr)	97.1	%	1	70-130		03/05/09 15:13	HW
	Toluene-d8(surr)	101	%	1	70-130		03/05/09 15:13	HW
SW-846 8270D	TCLP Semivolatiles							
	1,4-Dichlorobenzene	BRL	mg/L	1	0.05	7.5	03/09/09 12:09	ML
	2,4,5-Trichlorophenol	BRL	mg/L	1	0.05	400	03/09/09 12:09	ML
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.05	2	03/09/09 12:09	ML
	2,4-Dinitrotoluene	BRL	mg/L	1	0.05	0.13	03/09/09 12:09	ML
	2-Methylphenol	BRL	mg/L	1	0.05	200	03/09/09 12:09	ML
	3- & 4-Methylphenols	BRL	mg/L	1	0.05	200	03/09/09 12:09	ML
	Hexachlorobenzene	BRL	mg/L	1	0.05	0.13	03/09/09 12:09	ML
	Hexachlorobutadiene	BRL	mg/L	1	0.05	0.4	03/09/09 12:09	ML
	Hexachloroethane	BRL	mg/L	1	0.05	3	03/09/09 12:09	ML
	Nitrobenzene	BRL	mg/L	1	0.05	2	03/09/09 12:09	ML
	Pentachlorophenol	BRL	mg/L	1	0.05	100	03/09/09 12:09	ML
	Pyridine	BRL	mg/L	1	0.05	4	03/09/09 12:09	ML
	2-Fluorobiphenyl(surr)	64.9	%	1	30-115		03/09/09 12:09	ML
	2-Fluorophenol(surr)	46.7	%	1	15-111		03/09/09 12:09	ML
	Phenol-d6(surr)	43.6	%	1	15-120		03/09/09 12:09	ML
	p-Terphenyl-d14(surr)	63.9	%	1	18-137		03/09/09 12:09	ML
	2,4,6-Tribromophenol(surr)	45	%	1	10-120		03/09/09 12:09	ML
	Nitrobenzene-d5(surr)	54.8	%	1	20-120		03/09/09 12:09	ML
SW-846 9040C	Corrosivity, pH							
	pН	8.76	s.u.				03/04/09 10:00	RK

24b

Job ID: 09030051

Date 3/12/2009

Attn: Bill R. Fritsche

Client Name: Project Name: Nalco Company

San Jacinto College District - South TES & Central TES

Client Sample ID:

STES-SJCD Duplicate Samples S3, S4, S5, S6

Date Collected:

03/06/09

Time Collected: 08:00
Other Information:

Job Sample ID:

09030051.03

Sample Matrix

Liquid

Test Method Parameter/Test Description Result Units DF Rpt Limit Reg Limit O Date Time Analyst SW-846 6010C **TCLP Metals** Arsenic BRL 0.04 5.0 03/10/09 13:08 TK mg/L 1 **Barium** BRL mq/L 1 0.04 100.0 03/10/09 13:08 ΤK Cadmium BRL mg/L 1 0.04 1.0 03/10/09 13:08 TK Chromium BRL 5.0 ΤK mg/L 1 0.04 03/10/09 13:08 Lead **BRL** mg/L 1 0.04 5.0 03/10/09 13:08 TK Selenium BRL 1 1.0 03/10/09 13:08 TK ma/L 0.1 Silver BRL mg/L 1 0.04 5.0 03/10/09 13:08 TK SW-846 7470A TCLP Metals, Mercury BRL 0.0005 ΤK Mercury mg/L 1 0.2 03/10/09 11:56 SW-846 8081A **TCLP Pesticides** Chlordane BRL 25 30 **PNS** ug/L 1 03/11/09 11:55 **Endrin** BRL 1 2.5 20 03/11/09 11:55 **PNS** ug/L q-BHC BRL 300 uq/L 1 2.5 03/11/09 11:55 **PNS** Heptachlor BRL ug/L 1 2.5 8 03/11/09 11:55 **PNS** Heptachlor epoxide **BRL** 1 2.5 8 03/11/09 11:55 **PNS** ug/L Methoxychlor **BRL** 1 2.5 10000 03/11/09 11:55 ug/L PNS Toxaphene BRL ug/L 1 25 500 03/11/09 11:55 PNS Tetrachloro-m-xylene(surr) 83 % 1 12-106 03/11/09 11:55 **PNS** Decachlorobiphenyl(surr) 80.5 1 10-126 **PNS** % 03/11/09 11:55 SW-846 8151A **TCLP Herbicides** 2,4,5-TP BRL 1 25 1000 ug/L 03/11/09 16:09 **PNS** 2,4-D BRL 25 10000 ug/L 1 03/11/09 16:09 **PNS** DCPAA(surr) 67.8 % 1 38-120 **PNS** 03/11/09 16:09 SW-846 8260B TCLP VOC 1,1-Dichloroethylene BRL mg/L 1 0.13 0.6 03/10/09 19:25 HW **BRL** 1,2-Dichloroethane 1 0.13 0.5 mg/L 03/10/09 19:25 HW 1,4-Dichlorobenzene **BRL** 1 0.15 7.5 HW mg/L 03/10/09 19:25 Benzene BRL 0.13 0.5 mg/L 1 03/10/09 19:25 HW Carbon tetrachloride BRL mg/L 1 0.13 0.5 03/10/09 19:25 HW Chlorobenzene BRL mg/L 1 0.15 70 03/10/09 19:25 HW Chloroform BRL 1 0.13 6 03/10/09 19:25 HW mg/L MEK **BRL** 0.13 200 mg/L 1 03/10/09 19:25 HW Tetrachloroethylene BRL mg/L 1 0.16 0.7 03/10/09 19:25 HW Trichloroethylene BRL 1 0.13 0.5 HW mg/L 03/10/09 19:25 Vinyl Chloride BRL mg/L 1 0.1 0.2 03/10/09 19:25 HW 1,2-Dichloroethane-d4(surr) 95.2 % 1 70-130 03/10/09 19:25 HW Dibromofluoromethane(surr) 103 % 1 70-130 03/10/09 19:25 HW p-Bromofluorobenzene(surr) 108 % 1 70-130 03/10/09 19:25 HW

ab

Job ID: 09030051

Date 3/12/2009

Client Name:

Nalco Company

Attn: Bill R. Fritsche

Project Name:

San Jacinto College District - South TES & Central TES

Client Sample ID:

STES-SJCD Duplicate Samples S3, S4, S5, S6 $\,$

Job Sample ID:

09030051.03

Date Collected: Time Collected:

03/06/09 08:00 Sample Matrix

Liquid

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 8260B	TCLP VOC	-						
	Toluene-d8(surr)	103	%	. 1	70-130		03/10/09 19:25	HW
W-846 8270D	TCLP Semivolatiles							
	1,4-Dichlorobenzene	BRL	mg/L	1	0.05	7.5	03/10/09 14:13	ML
	2,4,5-Trichlorophenol	BRL	mg/L	1	0.05	400	03/10/09 14:13	ML
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.05	2	03/10/09 14:13	ML
	2,4-Dinitrotoluene	BRL	mg/L	1	0.05	0.13	03/10/09 14:13	ML
	2-Methylphenol	BRL	mg/L	1	0.05	200	03/10/09 14:13	ML
	3- & 4-Methylphenols	BRL	mg/L	1	0.05	200	03/10/09 14:13	ML
	Aniline	BRL	mg/L	1	0.05		03/10/09 14:13	ML
	Hexachlorobenzene	BRL	mg/L	1	0.05	0.13	03/10/09 14:13	ML
	Hexachlorobutadiene	BRL	mg/L	1	0.05	0.4	03/10/09 14:13	ML
	Hexachloroethane	BRL	mg/L	1	0.05	3	03/10/09 14:13	ML
	Nitrobenzene	BRL	mg/L	1	0.05	2	03/10/09 14:13	ML
	Pentachlorophenol	BRL	mg/L	1	1.25	100	03/10/09 14:13	ML
	Phenol	BRL	mg/L	1	0.05		03/10/09 14:13	ML
	Pyridine	BRL	mg/L	1	0.05	4	03/10/09 14:13	ML
	Nitrobenzene-d5(surr)	46.3	%	1	20-120		03/10/09 14:13	ML
	Phenol-d6(surr)	38.8	%	1	15-120		03/10/09 14:13	ML
	2-Fluorophenol(surr)	46.1	%	1	15-111		03/10/09 14:13	ML
	p-Terphenyl-d14(surr)	22.3	%	1	18-137		03/10/09 14:13	ML
	2,4,6-Tribromophenol(surr)	44.2	%	1	10-120		03/10/09 14:13	ML
	2-Fluorobiphenyl(surr)	54.8	%	1	30-115		03/10/09 14:13	ML



Job ID: 09030051

Date:

3/12/2009

Analysis : Corrosivity, pH

Method:

SW-846 9040C

Reporting Units: s.u.

QC Batch ID: Qb09030402

Created Date: 03/04/09

09030051.01,02

Created By: Rkurup

Samples in This QC Batch:

RPD

QC Type: Duplicate

QC Sample ID: 09030051.01

QCSample Result Sample RPD Result Units

Parameter CtrlLimit Qual рΗ 8.61 8.60 0.1 5

QC Type:	LCS and LCSD					-				
Parameter		LCS Assigned	LCS Result	LC Assid		LCSD Result	RPD	RPD CtrlLimit	Tolerance	Quai
pH		4.00	3.99		T	, too are			3.95-4.05	

Method:



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Metals

SW-846 6010C

Reporting Units: mg/L

QC Batch ID: Qb09030554

Created Date: 03/05/09

Created By: Tkhuc

Samples in This QC Batch:

09030051.02

Prep Date: 03/05/09 12:00 **Prep By:**

Tkhuc

Digestion: TCLP Prep: PB09030527 PB09030505 Prep Method: SW-846 3010A Prep Method: SW-846 1311

Prep Date: 03/04/09 16:55 **Prep By:**

Ksudha

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04		
Barium	7440-39-3	BRL	mg/L	1	0.04		
Cadmium	7440-43-9	BRL	mg/L	1	0.04		1
Chromium	7 44 0 -4 7-3	BRL	mg/L	1	0.04	•	ļ
Lead	7439-92-1	BRL	mg/L	1	0.04		
Selenium	7782 -4 9-2	BRL	mg/L	1	0.1		
Silver	7440-22-4	BRL	mg/L	1	0.04		

QC Type: LC:	S and LCSI				·						
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		2	2.09	105	2	2.05	103	1.9	20	80-120	
Barium		2	1.95	97.5	2	1.91	95.5	2.1	20	80-120	l
Cadmium		2	1.94	97	2	1.91	95.5	1.6	20	80-120	
Chromium		2	2.02	101	2	1.98	99	2	20	80-120	1
Lead		2	2.01	101	2	1.98	99	1.5	20	80-120	
Selenium		2	2.05	103	2	2.03	102	1	20	80-120	
Silver		2	2.08	104	2	2.04	102	1.9	20	80-120	

QC Type: MS and MSI QC Sample ID: 09030) 0053.01				y .						
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.09	105						45-138	
Barium	12.6	2	13.8	60						39-135	
Cadmium	BRL	2	1.99	98.8						56-125	
Chromium	0.107	2	2.10	99.7						52-125	
Lead	0.657	2	2.60	97.2	1 1		i I			55-125	
Selenium	BRL	2	2.07	102						70-130	
Silver	BRL	2	2.05	102						26-148	



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units:

mg/L

QC Batch ID: Qb09030607

Created Date: 03/05/09

Created By: Tkhuc

Samples in This QC Batch:

09030051.02

Prep Method: SW-846 7470A

Prep Date: 03/05/09 12:30 **Prep By:**

Tkhuc

Digestion: TCLP Prep: PB09030605 PB09030505

Prep Method: SW-846 1311

Prep Date: 03/04/09 16:55 **Prep By:**

Ksudha

QC Type:	Method	Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	 Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005	

QC Type:	LCS and	LCSD
£,p		

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0053	105	0.005	0.0051	102	3.1	35	71-143	

QC Type: MS and MSD

QC Sample ID:	09030042.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec_	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury	BRL	0.005	0.0048	96	0.005	0.0051	102	5.7	35	61-175	

Method:



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP VOC

SW-846 8260B

Reporting Units: mg/L

QC Batch ID: Qb09030609

Created Date: 03/05/09

Created By: Whuimei

Samples in This QC Batch:

09030051.02

Prep Method: SW-846 5030C

Prep Date: 03/05/09 10:00 **Prep By:**

Whuimei

Sample Preparation : TCLP Prep:

PB09030508 PB09030505

Prep Method: SW-846 1311

Prep Date: 03/04/09 16:55 **Prep By:**

Ksudha

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qua
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.13	
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13	
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15	
Benzene	71-43-2	BRL	mg/L	1	0.13	
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13	
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15	
Chloroform	67-66-3	BRL	mg/L	1	0.13	
MEK	78 - 93-3	BRL	mg/L	1	0.13	
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.16	
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13	
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1	

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.5	0.539	108	0.5	0.533	107	1.1	25	70-130	
Benzene	0.5	0.522	104	0.5	0.537	107	2.8	25	70-130	
Chlorobenzene	0.5	0.526	105	0.5	0.527	105	0.2	25	70-130	
MEK	0.5	0.504	101	0.5	0.478	95.6	5.3	35	70-130	
Tetrachloroethylene	0.5	0.532	106	0.5	0.542	108	1.9	25	70-130	
Trichloroethylene	0.5	0.519	104	0.5	0.503	101	3.1	25	70-130	

QC Type: MS and MSD QC Sample ID: 09020752.09											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.5	0.516	103		•				70-130	
Benzene	BRL	0.5	0.534	107						70-130	1
Chlorobenzene	BRL	0.5	0.517	103						70-130	
MEK	0.557	0.5	1.01	90.6						70-130	
Trichloroethylene	BRL	0.5	0.53	106						70-130	



Job ID: 09030051

Date:

3/12/2009

Analysis: Reactive Sulfide

Method: SW-846 7.3 Reporting Units: mg/L

QC Batch ID: Qb09030611

Created Date: 03/05/09

Prep Method: SW-846 7.3

Created By: Ksudha

Samples in This QC Batch: 09030051.01,02

Sample Preparation: PB09030608

Prep Date: 03/04/09 08:15 Prep By: Ksudha

QC	ı ype:	metnoa	RIANK

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Sulfide		BRL	mg/L	1	25	

QC Type: Duplicate

QC S	ample ID:	09020730.01					
		QCSample	Sample			RPD	
Paran	neter	Result	Result	Units	RPD	CtrlLimit	 Qual
React	tive Sulfide	BRL	BRL	mg/L		20	

QC Type:	LCS and LCSD

	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Reactive Sulfide	900	720	80	900	760	84.4	5.4	20	40-110	



Job ID: 09030051

Date:

3/12/2009

Analysis: Reactive Cyanide

Sample Preparation: PB09030612

Method:

SW-846 7.3

Reporting Units: mg/L

QC Batch ID: Qb09030614

Created Date: 03/05/09

Created By: Ksudha

Samples in This QC Batch: 09030051.01,02

Prep Method: SW-846 7.3

Prep Date: 03/04/09 08:15 Prep By:

Ksudha

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Cyanide		BRL	mg/L	1	25	

							-
20730.01							
QCSample	Sample			RPD		•	
Result	Result	Units	RPD	CtrlLimit			Qual
BRL	BRL	mg/L		20			
	Result	QCSample Sample Result Result	QCSample Sample Result Result Units BRL BRL mg/L	QCSample Sample Result Result Units RPD BRL BRL mg/L	QCSample Result Sample RPD Sample Result RPD CtrlLimit BRL BRL mg/L 20	QCSample RPD Result Result Units RPD CtrlLimit BRL BRL mg/L 20	QCSample RPD Result Result Units RPD CtrlLimit BRL BRL mg/L 20

QC Type: LCS and LCS	D			-		-				
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Cyanide	5.0	2.07	41.4	5.0	2.17	43.4	4.7	20	40-110	7



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Pesticides

Method:

SW-846 8081A

Reporting Units:

ug/L

QC Batch ID: Qb09031013

Created Date: 03/10/09

Created By: Psaraiya

Samples in This QC Batch:

09030051.02

Prep Date: 03/09/09 10:00 Prep By:

Lwang

Extraction: TCLP Prep: PB09030908 PB09030505 Prep Method: SW-846 3510C Prep Method: SW-846 1311

Prep Date: 03/04/09 16:55 **Prep By:**

Ksudha

QC Type: Method Blank	QC Type: Method Blank												
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qua							
Chlordane	57-74-9	BRL	ug/L	1	25								
Endrin	72-20-8	BRL	ug/L	1	2.5	i							
g-BHC	58-89-9	BRL	ug/Ł	1	2.5	1							
Heptachlor	76 -44- 8	BRL	ug/L	1	2.5								
Heptachlor epoxide	1027-57-3	BRL	ug/L	1	2.5								
Methoxychlor	72-43-5	BRL	ug/L	1	2.5								
Toxaphene	8001-35-2	BRL	ug/L	1	25								

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Endrin	5	4.46	89.2	5	5.35	107	18.1	25	50-130	
g-BHC	5	4.11	82.2	5	4.89	97.8	17.3	25	50-130	1
Heptachlor	5	2.64	52.8	5	3.15	63	17.6	25	50-130	
Heptachlor epoxide	5	4.24	84.8	5	5.03	101	17	25	50-130	
Methoxychlor	5	5.19	104	5	6. 44	129	21.5	25	50-130	

QC Type: MS and MSD QC Sample ID: 090300												
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual	
Endrin	BRL	5	5.78	116						40-140		
g-BHC	BRL.	5	4.94	98.8						40-140		
Heptachlor	BRL	5	3.59	71.8						40-140		
Heptachlor epoxide	BRL	5	6.43	129			ļ			40-140		
Methoxychlor	BRL	5	5.01	100						40-140		



Job ID: 09030051

Date:

3/12/2009

Analysis : TCLP Metals

Method:

SW-846 6010C

Reporting Units:

mg/L

QC Batch ID: Qb09031016

Created Date: 03/10/09

Created By: Tkhuc

Samples in This QC Batch:

09030051.03

Prep Method: SW-846 3010A

Prep Date :

03/10/09 10:00 Prep By:

Tkhuc

Digestion: TCLP Prep: PB09031013 PB09031006

Prep Method: SW-846 1311

Prep Date: 03/09/09 16:25 **Prep By:**

Ksudha

QC Type: Method Blan	k					
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L	1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782 -4 9-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type:	LCS and LCS	D									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		2	2.09	105	2	2.11	106	1	20	80-120	
Barium		2	1.90	95	2	1.93	96.5	1.6	20	80-120	
Cadmium		2	1.92	96	2	1.94	97	1	20	80-120	
Chromium		2	1.97	98.5	2	1.99	99.5	1	20	80-120	
Lead		2	1.99	99.5	2	2.01	101	1	20	80-120	
Selenium		2	2.08	104	2	2.10	105	1	20	80-120	
Silver		2	2.06	103	2	2.09	105	1.4	20	80-120	

	nd MSD	_		-		_						
QC Sample ID:	09030131.0	1										
Parameter		nple sult	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	В	RL	2	2.19	110						45-138	
Barium	В	RL	2	2.06	102						39-135	
Cadmium	l B	RL	2	1.99	99.3						56-125	
Chromium	В	RL	2	2.10	105						52-125	
Lead	В	RL	2	2.10	105	ì		İ		İ	55-125	Ì
Selenium	В	RL	2	2.08	104						70-130	
Silver	В	RL	2	2.11	105						26-148	



Job ID: 09030051

Date:

3/12/2009

Qual

Analysis: Ignitability (Flash Point)

Method:

SW-846 1010

Reporting Units: °F

QC Batch ID: Qb09031025

Created Date: 03/10/09

Sample

Created By: Sgarcia

Samples in This QC Batch: 09030051.01,02

QC Type: Duplicate

QC Sample ID: 09030051.01

QCSample Parameter Result >150

RPD

CtrlLimit

Ignitability

Result Units RPD >150 20

QC Type:	LCS and LCSI)						, ,			
		LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter		Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Ignitability		83	86	104	83	86	104	0	20	75-125	



Digestion:

Job ID: 09030051

Date:

3/12/2009

Reporting Units: mg/L Analysis : TCLP Metals, Mercury Method: SW-846 7470A

QC Batch ID: Qb09031028 Created Date: 03/10/09 Created By: Tkhuc

Samples in This QC Batch: 09030051.03

PB09031019

Prep Method: SW-846 7470A

Prep Date: 03/10/09 09:30 **Prep By:**

Tkhuc

TCLP Prep: PB09031006 Prep Method: SW-846 1311 **Prep Date:** 03/09/09 16:25 **Prep By:** Ksudha

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qı	ual
Mercury	7439-97-6	BRL	mg/L	1	0.0005		

QC Type:	LCS and LCSD)									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Oual
arameter		opk Added	Nesuic	70 INCC	Spk Added	Nesuit	70 INCC	1010	Culdinic	Carennic	Quai
Mercury		0.005	0.0049	98.2	0.005	0.0049	98.2	0	35	71-143	

QC Type: MS a QC Sample ID:	nd MSD 09020685.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury	BRL	0.005	0.0052	103	0.005	0.0052	105	1.7	35	61-175	



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units:

mg/L

QC Batch ID: Qb09031034

Created Date: 03/10/09

Created By: Mli

Samples in This QC Batch:

09030051.02

Lwang

Extraction: TCLP Prep: PB09030906

PB09030505

Prep Method: SW-846 3510C **Prep Method:** SW-846 1311

Prep Date: 03/09/09 08:00 Prep By: **Prep Date:** 03/04/09 16:55 **Prep By:**

Ksudha

QC Type: Method Blan	k				····	
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05	
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05	
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.05	l
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05	
2-Methylphenol	95 -4 8-7	BRL	mg/L	1	0.05	
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	1	0.05	
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.05	
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.05	
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05	
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05	
Pentachlorophenol	87-86-5	BRL	mg/L	1	1.25	
Pyridine	110-861	BRL	mg/L	1	0.05	

QC Type: LCS and LCS	BD .									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
1,4-Dichlorobenzene	0.25	0.163	65.2	0.25	0.169	67.6	3.6	35	24-134	
2,4,5-Trichlorophenol	0.25	0.17	68	0.25	0.158	63.2	7.3	35	6-115	1 1
2,4,6-Trichlorophenol	0.25	0.142	56.8	0.25	0.143	57.2	0.7	35	40-138	
2,4-Dinitrotoluene	0.25	0.183	73.2	0.25	0.169	67.6	8	35	32-114	
2-Methylphenol	0.25	0.168	67.2	0.25	0.167	66.8	0.6	35	6-132	
3- & 4-Methylphenols	0.5	0.318	63.6	0.5	0.33	66	3.7	35	29-132	
Hexachlorobenzene	0.25	0.134	53.6	0.25	0.146	58.4	8.6	35	44-142	
Hexachlorobutadiene	0.25	0.133	53.2	0.25	0.139	55.6	4.4	35	20-124	1 1
Hexachloroethane	0.25	0.179	71.6	0.25	0.182	72.8	1.7	35	14-136	1 1
Nitrobenzene	0.25	0.213	85.2	0.25	0.203	81.2	4.8	35	38-146	
Pentachlorophenol	0.25	0.092	36.8	0.25	0.083	33.2	10.3	35	25-125	
Pyridine	0.25	0.095	38	0.25	0.101	40.4	6.1	35	6-112	

QC Type: MS and MSD QC Sample ID: 090300	051.02										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,4-Dichlorobenzene	BRL	0.25	0.139	55.6						24-134	
2,4,5-Trichlorophenol	BRL	0.25	0.171	68.4						6-115	
2,4,6-Trichlorophenol	BRL	0.25	0.121	48.4						40-138	



Pyridine

Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units:

mg/L

QC Batch ID: Qb09031034

Created Date: 03/10/09

Created By: Mli

6-112

Samples in This QC Batch:

09030051.02

0.25

BRL

0.074

QC Type: MS and MS QC Sample ID: 0903	D 0051.02										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4-Dinitrotoluene	BRL	0.25	0.168	67.2						32-114	
2-Methylphenol	BRL	0.25	0.096	38.4				1	1	6-132	
3- & 4-Methylphenols	BRL	0.5	0.201	40.2				ŀ		29-132	
Hexachlorobenzene	BRL	0.25	0.144	57.6						44-142	
Hexachlorobutadiene	BRL	0.25	0.109	43.6				İ		20-124	ĺ
Hexachloroethane	BRL	0.25	0.15	60					1	14-136	
Nitrobenzene	BRL	0.25	0.152	60.8						38-146	}
Pentachlorophenol	BRI	0.25	0.119	47.6						25-125	

29.6



Job ID: 09030051

Date:

3/12/2009

mg/L

Analysis: TCLP Semivolatiles Method: SW-846 8270D Reporting Units:

Samples in This QC Batch: 09030051.03

 Extraction:
 PB09031011
 Prep Method: SW-846 3510C
 Prep Date:
 03/10/09 11:00
 Prep By:
 Lwang

 TCLP Prep:
 PB09031006
 Prep Method: SW-846 1311
 Prep Date:
 03/09/09 16:25
 Prep By:
 Ksudha

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05		
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.05		
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05	·	
2-Methylphenol	95 -4 8-7	BRL	mg/L	1	0.05		
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	1	0.05		
Aniline	62-53-3	BRL	mg/L	1	0.05		
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.05		
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.05		
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05		
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05		
Pentachlorophenol	87 - 86-5	BRL	mg/L	1	1.25		
Phenol	108-95-2	BRL	mg/L	1	0.05		
Pyridine	110-861	BRL	mg/L	1	0.05		

QC Type: LCS and LCS	<u> </u>						. ===			
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,4-Dichlorobenzene	0.25	0.162	64.8	0.25	0.167	66.8	3	35	24-134	
2,4,5-Trichlorophenol	0.25	0.182	72.8	0.25	0.173	69.2	5.1	35	6-115	
2,4,6-Trichlorophenol	0.25	0.139	55.6	0.25	0.148	59.2	6.3	35	40-138	
2,4-Dinitrotoluene	0.25	0.171	68.4	0.25	0.175	70	2.3	35	32-114	
2-Methylphenol	0.25	0.153	61.2	0.25	0.165	66	7.6	35	6-132	
3- & 4-Methylphenols	0.5	0.307	61.4	0.5	0.346	69.2	11.9	35	29-132	1 1
Hexachlorobenzene	0.25	0.136	54.4	0.25	0.146	58.4	7.1	35	44-142	
Hexachlorobutadiene	0.25	0.131	52.4	0.25	0.146	58.4	10.8	35	20-124	
Hexachloroethane	0.25	0.175	70	0.25	0.179	71.6	2.3	35	14-136	
Nitrobenzene	0.25	0.188	75.2	0.25	0.184	73.6	2.2	35	38-146	
Pentachlorophenol	0.25	0.073	29.2	0.25	0.096	38.4	27.2	35	25-125	\ \
Pyridine	0.25	0.086	34.4	0.25	0.101	40.4	16	35	6-112	

QC Type: MS and MSD QC Sample ID: 09030				<u></u>	-						
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,4-Dichlorobenzene	BRL	0.25	0.147	58.8						24-134	



Job ID: 09030051

Date:

3/12/2009

Analysis : TCLP Semivolatiles Method : SW-846 8270D Reporting Units : mg/L

Samples in This QC Batch: 09030051.03

QC Type: MS and MSD															
QC Sample ID: 09030	•														
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual				
2,4,5-Trichlorophenol	BRL	0.25	0.174	69.6						6-115					
2,4,6-Trichlorophenol	BRL	0.25	0.14	56						40-138					
2,4-Dinitrotoluene	BRL	0.25	0.17	68						32-114	;				
2-Methylphenol	BRL	0.25	0.153	61.2]			6-132					
3- & 4-Methylphenols	BRL	0.5	0.301	60.2						29-132					
Hexachlorobenzene	BRL	0.25	0.124	49.6						44-142					
Hexachlorobutadiene	BRL	0.25	0.124	49.6						20-124					
Hexachloroethane	BRL.	0.25	0.157	62.8						14-136					
Nitrobenzene	BRL	0.25	0.179	71.6						38-146					
Pentachlorophenol	BRL	0.25	0.126	50.4			1 1		1	25-125	ł				
Pyridine	BRL	0.25	0.055	22			1			6-112	-				

Method:



Job ID: 09030051

Date:

3/12/2009

Analysis : TCLP VOC

SW-846 8260B

Reporting Units:

mg/L

QC Batch ID: Qb09031108

Created Date: 03/10/09

Created By: Whuimei

Samples in This QC Batch: 09030051.03 Sample Preparation:

PB09031018

Prep Method: SW-846 5030C

Prep Date: 03/10/09 11:50 **Prep By:**

Whuimei

TCLP Prep:

PB09031006

Prep Method: SW-846 1311

Prep Date: 03/09/09 16:25 **Prep By:**

Ksudha

QC Type: Method Blank	ζ			<u> </u>		
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,1-Dichloroethylene	75-35 -4	BRL	mg/L	1	0.13	
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13	
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15	
Benzene	71-43-2	BRL	mg/L	1	0.13	
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13	
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15	
Chloroform	67 - 66-3	BRL	mg/L	1	0.13	·
MEK	78-93-3	BRL	mg/L	1	0.13	
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.16	İ
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13	ľ
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1	

QC Type: LCS and LC	CSD									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.5	0.573	115	0.5	0.537	107	6.5	25	70-130	T
Benzene	0.5	0.565	113	0.5	0.543	109	4	25	70-130	ı
Chlorobenzene	0.5	0.522	104	0.5	0.491	98.2	6.1	25	70-130	
MEK	0.5	0.604	121	0.5	0.546	109	10.1	35	70-130	İ
Tetrachloroethylene	0.5	0.507	101	0.5	0.498	99.6	1.8	25	70-130	
Trichloroethylene	0.5	0.553	111	0.5	0.517	103	6.7	25	70-130	

QC Type: MS and MSE QC Sample ID: 09030) 112.01								· · · · · · · · · · · · · · · · · · ·		
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD Ctr i Limit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.5	0.494	98.8						70-130	
Benzene	BRL	0.5	0.522	104					İ	70-130	1
Chlorobenzene	BRL	0.5	0.483	96.6	1 1					70-130	
MEK	0.862	0.5	1.38	104						70-130	
Trichloroethylene	BRL	0.5	0.506	101						70-130	1



Job ID: 09030051

Date:

3/12/2009

Analysis : TCLP Herbicides Method: SW-846 8151A Reporting Units: ug/L

QC Batch ID: Qb09031109 Created Date: 03/11/09 Created By: Psaraiya

Samples in This QC Batch: 09030051.02

Extraction : **Prep Date:** 03/09/09 08:50 **Prep By:** PB09030907 Prep Method: SW-846 8151A Lwang

TCLP Prep: **Prep Date:** 03/04/09 16:55 **Prep By:** Ksudha PB09030505 Prep Method: SW-846 1311

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
2,4,5-TP		BRL	ug/L	1	25	
2,4-D	94-75-7	BRL	ug/L	1	25	

QC Type:	LCS and LCSD)				e e					
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Quai
2,4,5-TP		50	48.7	97.4	50	48.3	96.6	0.8	35	35-128	
2,4-D		50	45.5	91	50	45.2	90.4	0.7	35	29-124	_

QC Type: MS and MSI QC Sample ID: 0903	0051.02	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		-							
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-TP	BRL	50	50.2	100						35-125	
2,4-D	BRL	50	48.5	97						29-124	



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Pesticides

Method:

SW-846 8081A

Reporting Units:

ug/L

QC Batch ID: Qb09031138

Created Date: 03/11/09

Created By: Psaraiya

Samples in This QC Batch: 09030051.03

Extraction:

PB09031022

Prep Method: SW-846 3510C

Prep Date: 03/10/09 14:00 **Prep By:**

Lwang

TCLP Prep:

PB09031006

Prep Method: SW-846 1311

Prep Date: 03/09/09 16:25 **Prep By:**

Ksudha

QC Type: Method Blani	K					
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Chlordane	57-74 - 9	BRL	ug/L	1	25	
Endrin	72-20-8	BRL	ug/L	1	2.5	
g-BHC	58-89-9	BRL	ug/L	1	2.5	
Heptachlor	76 -44- 8	BRL	ug/L	1	2.5	
Heptachlor epoxide	1027-57-3	BRL	ug/L	1	2.5	
Methoxychlor	72 -4 3-5	BRL	ug/L	1	2.5	
Toxaphene	8001-35-2	BRL	ug/L	1	25	

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Endrin	5	5.26	105	5	5.39	108	2.4	25	50-130	
g-BHC	5	4.91	98.2	5	5.01	100	2	25	50-130	1
Heptachlor	5	3.2	64	5	3.28	65.6	2.5	25	50-130	
Heptachlor epoxide	5	5.05	101	5	5.19	104	2.7	25	50-130	
Methoxychlor	5	6.05	121	5	5.84	117	3.5	25	50-130	

QC Type: MS and MS QC Sample ID: 0903	D 0051.03										
Parameter	Sample Result	MS Spk Added	MS Result	M\$ % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Endrin	BRL	5	6.33	127						40-140	
g-BHC	BRL	5	5.81	116						40-140	
Heptachlor	BRL	5	4.48	89.6						40-140	
Heptachlor epoxide	BRL	5	6.18	124						40-140	
Methoxychlor	BRL	5	7.4	148						40-140	М1



Job ID: 09030051

Date:

3/12/2009

Analysis: TCLP Herbicides

Method:

Reporting Units: ug/L

QC Batch ID: Qb09031201

Created Date: 03/12/09

Created By: Psaraiya

Samples in This QC Batch: 09030051.03

Extraction: TCLP Prep:

PB09031104 PB09031006

Prep Method: SW-846 8151A Prep Method: SW-846 1311

SW-846 8151A

Prep Date: 03/11/09 08:00 Prep By: **Prep Date:** 03/09/09 16:25 **Prep By:** Lwang Ksudha

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
2,4,5-TP		BRL	ug/L	1	25	
2,4-D	94-75-7	BRL	ug/L	1	25	

QC Type:	LCS and LCSI						-				
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4,5-TP		50	47.6	95.2	50	47.1	94.2	1.1	35	35-128	
2,4-D		50	44.9	89.8	50	44.1	88.2	1.8	35	29-124	

QC Type: MS a	nd MSD										
QC Sample ID:	09030051.03										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-TP	BRL	50	52.6	105						35-125	
2,4-D	BRL	50	50.5	101						29-124	

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Wy Z	10100 East Fwy (I-10) Ste. 100	1.			PORT				2.			., 10 0		NVOIC				3. PC				
WA	Houston, TX 77029	Company:	1/11		San de	10. On 1	4					<	SA					0.,,				
	713-453-6060	1	770	- 11	<u> </u>	A	Cit	- 4	- .				$\mathcal{T}_{\mathcal{I}}$	- 11				4 70		d Time /D	usiness Days)	
2	1-877-478-6060 Toll Free	Address:	5100	5 /4/C	Hu-	147	40	. 1-	Ac	dress	s : .		-									
	713-453-6091 Fax		<u> 2064.</u>	pelon	p_{\leftarrow}	IX_	7)	47	4									_ 01	Day*	uc	Other	
	ablabs.com	Contact:		UF					c	ontact	: .		/					_ 2	Days*			
A&B JO	OBID# OG 02 TYCL	Phone:	281	- 26:	3-7	26	6		Pt	none:			_(_					3	Days*	*Sui	charge applies	
	0.100001	Fax: 🔾	<u> 281</u>	-26	37	27	6		Fa	ax: 🗖			_)_					_ X-	Days - Si	tandard		
5. Proje	ect#	E-mail: 🔾	by	lrits	A	2	9	pole	OE-	mail: (Days - S	lanuaru		
6. Proje	ect Name/Location	00	<i>U</i>			1		4	4			3. 14 . C	Containe	ers*				1	T	Т		
5	ON ACINTO COLLEGE	DISTA	1167.	- ⊃	007	H	It	<i>د</i>	7			15. P	reserva	tives**								
6. Project Name/Location 5 DW JACIWTO COLLEGE DISTRICT - 5 7. Reporting Requirement:										··········		16. P	H-Lab	Only								
											/		<i></i>		//	/-/						
□ TRRP Limits only □ TRRP Rpt. Package □ See Attached □ Standard Level II												/										
8. Sampler's Name & Company (PLEASE PRINT) Sampler's Signature & Date																						
13/	TRRP Limits only TRRP Rpt. Package See Attached Standard Level II 8. Sampler's Name & Company (PLEASE PRINT) Sampler's Signature & Date Solic TRIP CITE Name & Company TRRP Rpt. Package 17. LAB USE 9. Sample ID and Description 10. Sampling 11. 12. Matrix 2. Sample 2. Sample 2. Sample 3. S													,	/ /							
LABUSE	9. Sample ID and Description	10). Samp	oling	11.	12.	·············	Ma	atrix		G			, /								
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19. RELINQUISHED BY DATE TIME 20. RECEIVED BY														D,	ATE	TIN	1E	22. KNC	WN HAZ	ARDS/CO	OMMENTS	
1 Bell Futsike 33-04 3:45																		1/2	Verme	11 HA	ZARDE	
1 7																	[-	NO KNOWN HAZARDS				
21 RECEIVED BY ABORATORY											7	1)						Temperature: C/				
											V	13 3 09 34 CI N-HNO3 5-H,504					5	2 (_// '				
*Containers: VOA - 40 ml vial A/G - Amber/Glass 1 Liter							Preservatives C Cool H - HCl N - HNO ₃ S - H ₂ SO ₄ OH - NaOH T - Na,S,O, X - Other												Intact: Yor N Initials			
4 oz/8 oz - glass wide mouth P/O - Plastic/other METHOD OF SHIPMENT							OH - NaOH T - Na ₂ S ₂ O ₃ X - Other BILL OF LADING/TRACKING #											A&B cannot accept verbal changes				
Please FAX written changes to 713-453-50.																						
LAB U	LAB USE ONLY SAMPLING RENTAL P/U Samples will be disposed of after 30 days											of after 30 days										

10100 East Fwy (I-10) Ste. 100																				
	1.	. 1		PORT				2.					VOICE TO			3. 1	°O #			
Houston, TX 77029	Company:	NAICE	CON	MPA	W'			c	ompa	any:			A116	<u> </u>	·					
713-453-6060 1-877-478-6060 Toll Free	Address:	7705	H161	4651	846	TO 1	A	A	ddres	-	_					4. 7	Turnaroun	d Time	(Busines	s Days)
713-453-6091 Fax		506x	nLA	VD	/X	7	7 U 7	78									1 Day*		I Other	
ablabs.com	Contact:	BIL	LF	EIT!	5 C	NO	, _	1	ontac	et:		, t)				2 Days*			
4&B JOB ID # () 2055	Phone:	713	527.28	1-2	63-	77	26					/	,			- (3 Days*	*:	Surcharge	applies
MUDUU	_Fax: □	581-	263	. 71	275	رسے		F	ax: 🗆	ì						-	7 Days - S		-	цриос
5. Project # 6. Project Name/Location 5. AN JACINTO COULTE 7. Reporting Requirement:	E-mail: 🔾	BRFY	itsc	he	01	se	0	E	-mail:				1				Days - 3	nanuaru		
5. Project Name/Location	0.5 70		ر. س			CO /	^	1			13.	14. Containe	rs)							
S ON JACINTO COLLEGE	US IR	107 -	>0	<i>ال د</i>	* /	(-)	<i>></i> -	す				15. Preserva								
7. Reporting Requirement:												16. PH-Lab (Only					J		
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☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ Sec 8. Sampler's Name & Company (PLEASE PRINT)		pler's Signa		ate							taine	۱۲.	, /\\/					/ ,		
						> _	_ د	. ^	Ci		of Containers	Kron Land	/,0/	/ .			/ /			
BILL PITS (HE NAICE COMP		BUL							7_		ō.	SHIP	X/ /							
9. Sample ID and Description	10	0. Samp	oling		12.			atrix	T		ş	TON'S					/ /			
		Date	Time	Comp.	ater	Soil	Sludge	≅	Air	Other	İ	*\U/					/ /			
				30	3	(0)	हिं			0		<u> </u>		\angle		\angle		18.	REMARK	S
THINTES-C3#C4	₿.	3-09	1300	$X \mid X$	X		X				İ	$X \mid$					0 1	A 5 1 .	,	1
DUPLICATE SAMPLES																	Add	NAV	Mal	J
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19. RELINQUISHED BY		DATE 1/	TIME 2	0. RE	CEIVE	D B)	Y						DATE	TII	ME	22. KN	OWN HA	ZARDS/	COMMEN	ITS
			,	0. RE(CEIVE	D B)	Y						DATE	TII	ME	22. KN	IOWN HA	ZARDS/	COMMEN	ITS
1 Bell Futsike	3	300 14	TIME 2		CEIVE	D BY	Υ						DATE		ME	22. KN	IOWN HA	ZARDS/	COMMEN A	its aps
1 Bell Futsike	3		,		CEIVE	ED BY	Y									No	HOWN HA	zards/	COMMEN ASA 2°C	its rps
	3	300 14	OUPE	1/RE		29 B)	(LA	3086	TORY				3/4/0°	l (No	Knou	zards/	MEA	its
1 Bell Futsike 2 3 *Containers: VOA - 40 ml vial A/G - Am	3/4 ber/Glass 1 Lit	304 4 1109	OUPE			B	(LAE - C90	30 P.A	XI.	HCI	0	N - HNO ₃		l (<i>∭</i> Tempe	Knou	ZARDS/ いん 人 Initia		its
1 Bell Fullsche 2 3 *Containers: VOA - 40 ml vial A/G - Am 4 oz/8 oz - glass wide mouth P/O - Pla	3/4	304 4 1109	ia spe	1/REC	Valive	(B) C OI	LAE - Cool H - Na	рн Скім	(†		₂ O ₃	N - HNO ₃ X - Other	3/4/0°	l (Na Tempe Intact:	KNOU erature: Y or N A&B can	Initia	^C s verbal char	rps nges
1 Bell Futbook 2 3 *Containers: VOA - 40 ml vial A/G - Am 4 oz/8 oz - glass wide mouth P/O - Pla METHOD OF SHIPMENT	3/4 ber/Glass 1 Lit	304 4 1109	ia spe	1/REG	Valive	(B) C OI	LAE - Cool H - Na	DH CKIN	(†	HCI	₂ O ₃	3	3/4/0°	l (Tempe Intact:	KNOU erature: Y or N	Initia	°C Is verbal char ges to 713-	nges 453-6091

The Chain of Custody is a Legal Document

Page_

Chain of Custody

A & B Labs

The Chain of Custody is a Legal Document

13. 14. Containers* 15. Preservatives** 16. PH-Lab Only

17.

Company:

Address:

Contact:

Phone:

Fax: 🔾

E-mail: 🗆

INVOICE TO:

Page ___

4. Turnaround Time (Business Days)

☐ Other

*Surcharge applies

3. PO#

☐ 1 Dav*

☐ 2 Days*

☐ 3 Davs*

🗖 7 Davs - Standard

Chain of Custody

Address:

Phone:

SAN JACUATO COLLEGE DISTRICT - South TES

☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

10100 East Fwy (I-10) Ste. 100

Houston, TX 77029

713-453-6091 Fax ablabs.com

1-877-478-6060 Toll Free

713-453-6060

A&B JOB ID#

6. Project Name/Location

7. Reporting Requirement:

5. Project #

REPORT TO:

EGAPLAND TX 77478

7705 HI GHWAY 90 A

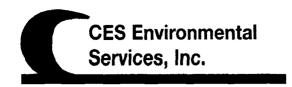
Company: NOW CO as PDAY

0.b

Sample Condition Checklist

Date: 03/12/09

							-				
A&B	JobID : 09030051 Date Re	ceived: 03	3/03/2009		Time I	Received :	3:45PM				
Clien	t Name : Nalco Company				1						
Tem	perature : 8.5°C Sample	pH: N/	'A								
		Check P	Points					Yes	No		
1.	Cooler seal present and signed.							N/A			
2.	Sample(s) in a cooler.							Х	_		
3.	3. If yes, ice in cooler.										
4.	Sample(s) received with chain-of-custody.					 -		Х			
5.	C-O-C signed and dated.							Х			
6.											
7.	Sample containers arrived intact. (If no comm	nent).						х			
	Matrix Water Soil Liquid Sluce:			Tube	Bulk	Badge	Food	Oth	er		
8.											
9. Sample(s) were received in appropriate container(s).											
10.	Sample(s) were received with proper preserv	ative					<u></u>		_		
11,	All samples were logged or labeled.	<u> </u>						х			
12,	Sample ID labels match C-O-C ID's							х			
13.	Bottle count on C-O-C matches bottles found							Х			
14,	Sample volume is sufficient for analyses requ	ested.							Х		
15.	Samples were received within the hold time.	··· ·						Х			
16.	VOA vials completely filled.							N/A			
17.	Sample accepted.							х			
Com	ments : Include actions taken to resolve discre	pancies/pro	blem:								
Additi	le cooling initiated in the field. Not enough sample to onal sample was received for sample CTES-SJCD (ou ater date client is aware TCLP analysis will not be rep (our #.01) 3/6/09 MG.	r #.02) 3/4/09	9. For sample STE	S-SJCD (our	#.01) clie	ent said he w	ould bring ir	n more s	ample		
	eived by : Kisom		Check in	by/date :	Kisom / (03/03/2009					
Phone	e: 713-453-6060					V	ww.ablabs	.com			



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/29/2009

Dear Mike Peterson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3407

Expiration Date 6/29/2011

Generator: TAS Commercial Concrete

Address: 19319 Oil Center Blvd

Houston, TX 77073

Waste Information

Name of Waste: Waste unused amines TCEO Waste Code #: CESQ2191

Container Type:

Detailed Description of Process Generating Waste:

Unused amines used to activate 2 part coatings used in the concrete construction process

Color: Varies-Brown-Amber Odor: Heavey Amine pH: 10-11.5

Physical State:

Incompatibilities: See section 10; It has extensive list

Safety Related Data/Special Handling:

Level B PPE - Respirator required if handling

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



ental

CES Environmental Services - Port Arthur Facility

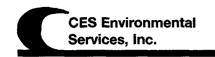
U.S. EPA ID N	4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948						CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585									
SECTION 1:	Generator I	<u>nformatio</u>	<u>n</u>													
Company:	TAS Comme	ercial Conc	rete													
Address:	19319 Oil C	enter Blvd														
City:	Houoston				State:	TX		Zip:			7	77073				
Contact:	Mike Peder	son				Title:										
Phone Num	nber:	281-615	-6290	-		Fax Num	ber:									
24/hr Phon	-6290															
US EPA ID No:		TXCESQC	3													
State ID No:		CESQG				SIC Code	:									
SECTION 2: Billing Information - Same as Above Company: Address:																
City:					State:			Zip:								
Contact:					J. 10.10.	Title:										
Phone Num	nber:				*	Fax Num	ber:	***								
SECTION 3: General Description of the Waste																
	Name of Waste: Detailed Description of Process Generating Waste:															
Unused am	ines used to	activate 2	part coating	gs used	in the conc	rete cons	tuctio	on process								
Physical Sta	ate: 🗸	Liquid Solid		=	Sludge Filter Cake			Powder Combination								
Color:	Varies-Brow	vn-Amber	·····			Odor:		Heavey Amine								
Specific Gra	avity (water=	1):	.95-1	.1				Density:	8.3 lbs/ga	al						
Does this m	naterial conta	ain any tot	al phenolic	compo	unds?		Yes	☑ No								
Does this m	naterial conta	ain any pa	ra substitui	ted phe	nolic comp	ounds?		Yes Yes	☑ No							
								i1, Subpart FF) cility is one of th	e following:	Yes	V	No				
2812			2816	2819	2821		2822		2824	2833		2834				
2835			2841	2842	2843		2844		2861	2865		2869				
2873			2876	2879	2891		2892		2896	2899		2911				
3312			4959	9511												
Layers:		gle-phase		Multi-	phase											
Container T	Type: 🗹	Drum	☐ Tote		Truck 🗌	Other (ex	kplair	n)								
Frequency: Quantity:	☐ Weekly	✓ Mon	ithly 🗌 Y	early [One-Ti	me										

	Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes ✓ No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto											
•	If "Yes", Is it: D001 (Ignitable) D002 (Corrosive) D003 (Reactive) Characteristic for Toxic Metals: D004 D005 D006 D007 D008 D009 D010 D011											
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) Na												
Is this an "F" or "K" Listed waste or mixed with one? If "Yes", then please list ALL applicable codes: Na												
40 CFR 261.3	Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?											
Texas State	Waste Code N	lumber:		CESQ2191			_					
Proper US D	OT Shipping f	Name:	Amines, co	rosive, Liqui	d, nos							
Class:	8	UN/NA:	2735	PG:	III	RQ:						
Flash	Point	pl		Reacti	e Sulfides	Reactive	Cyanides	Sol	ids			
>2	.00	10-1	1.5	0	mg/l	0	mg/l	0 ·	%			
Oil &	Grease	то	С		Zinc	Co	pper	Nic	kel			
Na	mg/i	Na	<u>mg/l</u>	Na	<u>mg/l</u>	Na	mg/l	Na	mg/l			
SECTION 4:	SECTION 4: Physical and Chemical Data											

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Amine Activators	100	%
<u> </u>		
<u> </u>		
		
 		
		
		
	· · · · · · · · · · · · · · · · · · ·	
		
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SECTION 5: Safety Rei	
If the handling of this w	vaste requires the use of special protective equipment, please explain.
Level B PPE- Respirator	required if handling
SECTION 6: Attached S	Supporting Documents
List all documents, note	es, data and/or analysis attached to this form as part of the waste
approval package.	MSDS
approva package:	meso
SECTION 7: Incompati	
Please list ALL incompa	• • •
See section 10**** Ha	as extensive list
	
SECTION 8: Generator	's Knowledge Documentation
	the hazardous waste characteristics, listed below, WAS NOT PERFORMED
	ing generator knowledge:
TCLP Metals:	Na-None in process
TCLP Volatiles:	Na-None in process
TCLP Semi-Volatiles:	
	Na-None in process
Reactivity:	Na-None in process
Corrosivity:	Na-None in process
Ignitability:	Na-None in process
	pt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatme
<u>Facilities</u>)	
	erial a wastewater or wastewater sludge?
If 'Yes'	, complete this section.
PLEASE CHI	ECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Adatala Subantanani. Su	the word A
Metals Subcategory: Su	roplating baths and/or sludges
— ·	hing rinse water and sludges
Chromate	
=	on control blow down water and sludges
	dizing solutions
	n wastewaters
☐ Waste liqui	
	ontaining wastes greater than 136 mg/l
	Is and bases with or without metals
🔲 Cleaning, ri	insing, and surface preparation solutions from electroplating or phosphating operations
Uibratory d	deburring wastewater
Alkaline an	d acid solutions used to clean metal parts or equipment
Oils Subcategory: Subpo	art B
Used oils	
🔲 Oil-water e	emulsions or mixtures
Lubricants	
Coolants	
	ted groundwater clean-up from petroleum sources
= '	oleum products
Oil spill clea	·
Bilge water	
I I Rinse/wash	n waters from netroleum sources

Interceptor wastes
U Off-specification fuels
Underground storage remediation waste
☐ Tank clean-out from petroleum or oily sources
 ✓ Non-contact used glycols ✓ Aqueous and oil mixtures from parts cleaning operations
Wastewater from oil bearing paint washes
Trasteriates nom on bearing paint natives
Organics Subcategory: Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
Under the control of
L Still bottoms
☐ Byproduct waste glycol
☐ Wastewater from paint washes
☐ Wastewater from adhesives and/or epoxies formulation
☐ Wastewater from organic chemical product operations ☐ Tank clean-out from organic, non-petroleum sources
Tank clean-out nom organic, non-petroleum sources
(1)
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
,
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
_ • • • • • • • • • • • • • • • • • • •
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature: Multiple Date: 6/24/2009
and O have then me
Printed Name/Title: Mike Peterson Mike Peter
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer:
Date: <u>6-29-00</u> Approved Rejected
Approval Number:



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$95/dm
	\$70/hr Trans
ı	
_	
2.	Contamination Limits (maximum limit before surcharges apply):
İ	None
- 1	
Ì	
•	Complex on Database
3.	Surcharge Pricing:
l	Call Sales person if needed
ļ	
Ì	
ĺ	
ĺ	
4.	Superial Tagging Descriptions
4.	Special Testing Requirements:
ſ	None
Ì	
1	
5.	Treatment and Handling Protocol:
J. [
Ì	, Use caution when opening the drum- Strong VaporsClass 1 to LANDFILL
J	
-	
Ì	
l	
6.	Treated Wastewater Discharge Subcategory:
 [
	☐ Subcategory A ☐ Subcategory C
	_ Subcategory A Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	Na
8.	Management for Product Recovered/Recycled (if applicable);
	NA

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAMES

EP5345 - Activator EP5347 - Activator EP7120 - Activator EP7140 - Activator EP9053 - Activator

MSDS REVISION NUMBER

FROM

Eager Polymers 3350 W. 48th Place Chicago, IL 60632

www.eagerplastics.com/msds.htm

Back to our homepage at: www.eagerplastics.com

TELEPHONE NUMBER

773-927-3484

REVISION DATE

APRIL 2008

EMERGENCY OVERVIEW

HMIS/NFPA HEALTH 3

FLAMMABILITY 1 REACTIVITY 0

PHYSICAL FORM

Mobile liquid

COLOR

Amber

ODOR

Ammoniacal

HAZARDS

Harmful if in contact with skin. Harmful if swallowed. Corrosive to eyes. Corrosive to skin. Severe eye irritant. Severe skin irritant. May cause respiratory sensitization. May cause skin

sensitization.

EXTINGUISHING MEDIA

Ignition will give rise to a Class B fire. In case of large fire use: alcohol foam, water spray. In case of small fire use: carbon dioxide (CO2), dry chemical, dry sand or limestone.

C.A.S. CHEMICAL NAME

Mixture

SYNONYMS

None

CHEMICAL FAMILY

Aliphatic Amines

EMPIRICAL FORMULA

Mixture

INTENDED USE

Curing Agent, Epoxy

REVISION NOTES

Updated European Information Updated health hazard information. TARGET ORGANS SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects) SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects) EEC RISK

PHRASES EEC SAFETY PHRASES

CHRONIC/SUBCHRONIC DATA Updated handling

and storage information.

SECTION 2 - INGREDIENTS

Num	. જ	CAS Number and Chemical Name
1.	>30.00	80-05-7 PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-
2.	<70.00	111-40-0 DIETHYLENETRIAMINE (DETA)

OSHA (ACGIH) EXPOSURE LIMITS

	·	TWA ppm	mg/m3	STEL ppm	mg/m3	CEILING ppm	mg/m3	
1.	OSHA ACGIH	N/E N/E	N/E N/E	N/E N/E	N/E N/E	N/E N/E	N/E N/E	
2.	OSHA ACGIH	1.0000 1.0000	4.0000 4.2000	N/E N/E	N/E N/E	N/E N/E	N/E N/E	Skin

N/E = Not Established.

SECTION 3 - HEALTH HAZARDS

ROUTES OF EXPOSURE

Eye Contact Skin Contact Ingestion Skin Absorption

EXPOSURE STANDARDS

See Section 2 for exposure standards on ingredients. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

Harmful if in contact with skin.

Harmful if swallowed.

Corrosive to eyes.

Corrosive to skin.

Severe eye irritant.

Severe skin irritant.

May cause respiratory sensitization.

May cause skin sensitization.

TARGET ORGANS

Eye Skin

Respiratory system

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Burns of the eye may cause blindness. Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury.

Inhalation of aerosols and mists may severely damage contacted tissue and produce scarring.

Product is absorbed through the skin and may cause malaise, discomfort, injury and death unless treated promptly.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

This substance may cause respiratory sensitization and chronic lung toxicity to exposed workers.

Repeated and/or prolonged exposure may cause allergic reaction/sensitization.

Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthma

Chronic respiratory disease (e.g. Bronchitis, Emphysema) Eye disease Skin disorders and Allergies

CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER

This product contains no carcinogens in concentrations of 0.1 percent or greater.

SECTION 4 - FIRST AID

EYE CONTACT

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT

Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. Do not apply greases or ointments. Control shock, if present. Launder contaminated clothing prior to reuse.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

INGESTION

In the event of ingestion, administer 3-4 glasses of milk or water. Do not induce vomiting. Seek medical advice.

SECTION 5 - FIRE AND EXPLOSION DATA FLASH POINT (closed cup) 102.78 C (217.00 F) UPPER EXPLOSION LIMIT (UEL) No Data LOWER EXPLOSION LIMIT (LEL) No Data AUTOIGNITION TEMPERATURE No Data FIRE HAZARD CLASSIFICATION (OSHA/NFPA) Class IIIB EXTINGUISHING MEDIA Ignition will give rise to a Class B fire. In case of large fire use: water spray, alcohol foam. In case of small fire use: carbon dioxide (CO2), dry chemical, dry sand or limestone. SPECIAL FIRE FIGHTING PROCEDURES A face shield should be worn. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing Retain expended liquids from fire fighting for later disposal. UNUSUAL FIRE AND EXPLOSION HAZARDS May generate toxic or irritating combustion products. Contact of liquid with skin must be prevented. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas. Personnel in vicinity and downwind should be evacuated. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc) Stop the leak, if possible. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze). CLEAN-UP PROCEDURES If recovery is not feasible, admix with dry soil, sand or nonreactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Wear protective clothing, boots, gloves, and eye protection.

SECTION 7 - HANDLING AND STORAGE

STORAGE

http://www.eagerplastics.com/1638.htm

6/21/2009

Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in reactive metal containers.

HANDLING

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well ventilated work space. When handling, do not eat, drink, or smoke. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA). Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Cancer-causing nitrosamines could be formed.

SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

EYE PROTECTION

Full face shield with goggles underneath.

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves.

RESPIRATORY PROTECTION

Not required under normal conditions in a well-ventilated workplace. Under the following conditions a respirator may be required: when product vapor concentration exceeds the limits listed in section 2, during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications. Types of respirators that may be used include the following: Chemical Cartridge Respirator with face piece to protect against the organic vapor, Supplied air respirator with full face piece, Self-contained breathing apparatus in pressure demand mode. In emergency conditions use a self-contained breathing apparatus in pressure demand mode.

PROTECTIVE CLOTHING

Impervious clothing. Slicker Suit. Rubber boots. Full rubber suit (rain gear). Butyl or latex protective clothing.

ENGINEERING CONTROLS

Maintain air concentrations in work spaces in accord with standards outlined in Sections 2 and 3.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Discard contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM COLOR ODOR ηH VAPOR PRESSURE (mm Hq at 21C (70F)) VAPOR DENSITY (Air = 1) BOILING POINT MELTING POINT SOLUBILITY IN WATER SPECIFIC GRAVITY (Water = 1)

Mobile liquid Ammoniacal ALKALINE <0.09774 No Data >200.00 C (>392.00 F) No Data 1.40% 1.03

Mixture

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY Stable

MOLECULAR WEIGHT

CONDITIONS TO AVOID (if unstable) Not applicable

INCOMPATIBILITY (Materials to Avoid)

Mineral acids (i.e. sulfuric, phosphoric, etc.). Organic acids (i.e. acetic acid, citric acid etc.). Oxidizing Agents (i.e. perchlorates, nitrates etc.). Reactive metals (i.e. sodium, calcium, zinc etc.). Sodium or Calcium Hypochlorite. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. Nitrites, nitrosating agents. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials).

Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. nitrosamines. Aldehydes. The oxides of nitrogen gases (except nitrous oxide) emitted on decomposition are highly toxic.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID (if polymerization may occur) Not applicable

SECTION 11 - TOXICOLOGICAL PROPERTIES

```
ACUTE ORAL TOXICITY (LD50, RAT)
    1080.00 mg/kg (Estimate)
ACUTE DERMAL TOXICITY (LD50, RABBIT)
    1090.00 mg/kg (Estimate)
ACUTE INHALATION TOXICITY (LC50, RAT)
   No Data
OTHER DATA
   Data available on components only.
OTHER ACUTE EFFECTS
   No Data
IRRITATION EFFECTS DATA
   Irritation data based on estimates.
CHRONIC/SUBCHRONIC DATA
   Component has caused skin and respiratory senstization in humans.
SECTION 12 - ECOLOGICAL INFORMATION
ECOTOXICITY
   No Data
ENVIRONMENTAL FATE
   No Data
ADDITIONAL INFORMATION
   Waste from this product may present long term environmental
   hazards, thus landfill disposal must be considered less acceptable
   than incineration..
______
SECTION 13 - DISPOSAL CONSIDERATIONS
WASTE DISPOSAL
   Comply with all Federal, State and Local Regulations.
SECTION 14 - TRANSPORT INFORMATION
DOT NON-BULK SHIPPING NAME
                               Amines, liquid, corrosive, n.o.s.
                                (Diethylenetriamine) // 8 // UN2735 //
                               PG III
DOT BULK SHIPPING NAME
                               Refer to Bill of Lading.
IMO SHIPPING DATA
                               Refer to Bill of Lading.
ICAO/IATA SHIPPING DATA
                               Amines, liquid, corrosive, n.o.s.
                                (Diethylenetriamine) // 8 // UN2735 //
                                III // Shipment per 49 CFR 171.11
```

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA) -

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es) Corrosive. Sensitizer.

EPA SARA Title III Section 312 (40CFR370) hazard class Immediate Health Hazard. Delayed Health Hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-

STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")

None

NEW JERSEY TRADE SECRET REGISTRY NUMBER(S)

SECTION 16 - INTERNATIONAL REGULATIONS

CANADA

DSL

Included on Inventory.

WHMIS HAZARD CLASSIFICATION

Class D Division 2A, Class D Division 2B, Class E Corrosive, WHMIS TRADE SECRET REGISTRY NUMBER(S)

None

WHMIS HAZARDOUS INGREDIENTS

DIETHYLENETRIAMINE (DETA)

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-

WHMIS SYMBOLS

Test tube/hand, Stylized T,

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS/ELINCS MASTER INVENTORY

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

EEC SYMBOL

CORROSIVE (C)

EEC RISK (R) PHRASES

May cause sensitization by inhalation and skin contact (R42/43). Causes burns (R34).

EEC SAFETY PHRASES

Do not breathe vapors (S23V). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).

AUSTRALIA

AICS

Included on Inventory.

JAPAN MITI

Included on Inventory.

PHILIPPINES PICCS

Included on Inventory.

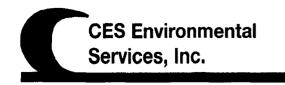
KOREA ECL

Included on Inventory.

CHINA SEPA

Included on Inventory.

END OF DOCUMENT



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/29/2009

Dear Mike Peterson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3408

Expiration Date 6/29/2011

Generator: TAS Commercial Concrete

Address: 19319 Oil Center Blvd

Houston, TX 77073

Waste Information

Name of Waste: Recycable Oily water

TCEQ Waste Code #: Recycabl

Container Type:

Detailed Description of Process Generating Waste:

Oily water and sludge from cleaning wash bays

Color: Black

Odor: Oil

pH: 5-9

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level C PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



DB/ MM Recycle to

U.S. EPA ID N	s Road, Ho 76-1460 08950461		77021	1	CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585								
SECTION 1:	Generator I	nformatio	<u>on</u>										
Company:	TAS Comme	ercial Con	crete										
Address:	19319 Oil C	enter Blv	d										
City:	Houoston			St	tate:	TX		Zip:				77073	
Contact:	Mike Peder	son				Title:							
Phone Num	ber:	281-615	5-6290			Fax Num	ber:						
24/hr Phone	e Number:	281-615	5-6290										
US EPA ID N	lo:	TXCESQ	<u>G</u>										
State ID No:		CESQG				SIC Code:	:						
SECTION 2: Billing Information - Same as Above Company: Address:													
City:					ate:			Zip:					
Contact:				~~``		Title:		. -					
Phone Num	ber:					Fax Num	ber:						
SECTION 3:	General Des	cription	of the Was	te									
Name of Wa	aste:	Recycle	able Oily W	/ater									
Detailed De	scription of	Process G	enerating	Waste:									
Oily water a	nd sludge fro	om cleani	ng wash ba	ays									
Physical Sta	te: 🔽	Liquid		☐ SI	udge			Powder					
		Solid		☐ Fi	lter Cake			Combination					
		•											
Color:	Black					Odor:		Oil					
Specific Gra	vity (water=	1):	.9-1					Density:	8.3 lbs/g	al			
Does this m	aterial conta	ain any to	tal phenol	ic compou	nds?		Yes	✓ No					
				•									
Does this m	aterial conta	ain any pa	ıra substiti	uted phen	olic comp	ounds?		☐ Yes	✓ No				
Is the Waste	e subiect to 1	the benze	ne waste	operation	NESHAP?	(40 CFR P	art 6	1, Subpart FF)		Yes	V	No	
								cility is one of th	e following:		ت		
2812			2816	2819	2821		2822		2824	2833		2834	
2835			2841	2842	2843		2844		2861	2865		2869	
2873	2874		2876	2879	2891		2892		2896	2899		2911	
3312	4953		4959	9511									
Layers:	☐ Sin	gle-phase		Multi-pi	hase								
Container T	ype: 🔽	Drum	☐ Tota	e 🗌 Tı	ruck 🗌	Other (ex	plain	n)					
Frequency: Quantity:	☐ Weekly	✓ Mo	nthly 🗌	Yearly [One-Ti	me							

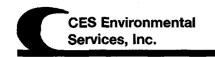
Is this a USEPA "Hazardous V If "Yes", then please complet	•			Yes		No ched hereto		
If "Yes", Is it: D0 Characteristic for Toxic Meta Characteristic for Toxic Orga		☐ D004 ☐ D010	□D011	□ D006	D003 (Read D007		□ D009	
Na		(p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	c.,ac app.,,,				
Is this an "F" or "K" Listed wa			?	☐ Yes		No		
Is this a commercial product 40 CFR 261.33(e) or (f)? If "Yes", then please list Al	•	. □ Y	<u>-</u>	a "U" or "P" wa] No No	aste code un	der	·	
Texas State Waste Code Nun	mber:		Recycleabl	e		•		
Proper US DOT Shipping Nan	ne: R	ecvcleable	Oily Water					
Class: Na UN	_	la	PG:	Na	RQ:	Na		
Flash Point	рН		React	ve Sulfides	Reactive	Cyanides	Sol	ids
>200	5-9		0	mg/l	0	mg/l	0	%
Oil & Grease	тос			Zinc	Cor	per	Nic	kei
>1500 <u>mg/l</u>	Test	mg/l	Test	mg/l	Test	mg/l	Test	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	65-95	%
Hydrocarbons (oil, diesel, hydrolic oils)	2-10	%
Sludge (dirt)	5-25	%
		_

If the handlin Level C PPE		vaste requires the use of special protective equ	ipment, please explain.	
	nents, note	supporting Documents es, data and/or analysis attached to this form a None	s part of the waste	
SECTION 7: Please list AL Oxidizers		<u>pilities</u> tibilities (if any):		
Laboratory a	nalysis of t	s Knowledge Documentation he hazardous waste characteristics, listed belo ng generator knowledge:	w, WAS NOT PERFORMED	
TCLP Metals:		Na-None in process		
TCLP Volatile		Na-None in process		
TCLP Semi-V	olatiles:	Na-None in process		
Reactivity:		Na-None in process		
Corrosivity:		Na-None in process		
Ignitability:		Na-None in process		
Facilities)	·	ot Classification Under 40 CFR 437 (Prtaining to Pro rial a wastewater or wastewater sludge?	e-Treatment Requirements	for Centralized Waste Treatment NO
	If 'Yes',	complete this section.		
	PLEASE CHE	ECK THE APPROPRIATE BOX. IF NO APPROPRIATE	CATEGORY, GO TO THE NEXT	PAGE.
	Spent elect Metal finish Chromate w Air pollution Spent anod Incineration Waste liqui Cyanide-con Waste acids Cleaning, rii Vibratory de	roplating baths and/or sludges sing rinse water and sludges vastes n control blow down water and sludges izing solutions n wastewaters	, , , , , , , , , , , , , , , , , , , ,	perations
Oils Subcatea	<u>ory</u> : Subpa	urt B		
	Used oils			
=	Oil-water ei Lubricants	mulsions or mixtures		
=	Coolants			
	Contaminat	ed groundwater clean-up from petroleum sources		
_		eum products		
	Oil spill clea Bilge water			
=	-	waters from petroleum sources		

Interceptor wastes
Undergrand stands are remodiation waste
 Underground storage remediation waste □ Tank clean-out from petroleum or oily sources
Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C
Landfill leachate
☐ Contaminated groundwater clean-up from non-petroleum sources☐ Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources
(1)
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document
Authorized Signature: Date: 6/24/2009
Printed Name/Title: Mike Peterson MW Peterson YSSD Manage
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Date: 6-29-9 VApproved Rejected Approval Number:



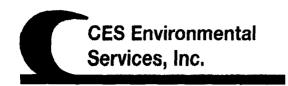
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

ı.	Base Pricing (including freight):
	.40/gal for bulk loads <20% solids
	\$70/hr Vac truck
- 1	\$110/hr Air Machine
1	
ľ	
Į	
2.	Contamination Limits (maximum limit before surcharges apply):
ſ	oil fails chlor-d-tect
- 1	
3.	Surcharge Pricing:
í	Call Sales person if needed
ı	Can sales person if needed
ļ	
Ì	
•	
4.	Special Testing Requirements:
1	Chlor-d-tect on oil phase, flash, phenol
ļ	Cinor-u-teet on on phase, hash, phenor
ĺ	
I	
	·
5.	Treatment and Handling Protocol:
i	Oily Water Treatment
	Ony water readment
ſ	
J	
١	
6.	Treated Wastewater Discharge Subcategory:
	Children A. M. Children B. C. Children C.
- {	☐ Subcategory A ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

/•	Tests for Product Recovered/Recycled (if applicable):
	Used oil tests
8.	Management for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); Sell in used oil Market
8.	
8.	
8.	
8.	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/19/2009

Dear Tom Haver/Ellie MacNair 281-587

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3388

Expiration Date 6/19/2011

Producer: Soltex c/o Lindon Manufacturing

Address: 7614 Wallisville Rd.

Houston, TX 77029

Material / Product Information

Name of Material / Product Naptel - flush and partial

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

flush oil and unused products from hydrocarbon manufacturing processes

Color: pale brown Odor: none pH: solid

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

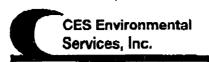
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 JB/MM
Product
Product
Assustan

SECTION 1: Gener	rator Information											
Company:	Soltex c/o Lindor	Manufacti	ıring	* * *								
Address:	7614 Wallisville	Rd.										
City, State, Zip:	Houston TX 770	29										
Contact :	Lincoln Murphy					Title :	•					
Phone No :	(713) 672-4450					Fax:						
24 / HR Phone :												
U.S EPA I.D No :	CESQG											
State I.D :	TXCESQG					SIC Co	de					
SECTION 2: Billing	Information											
Company:	Soltex											
Address :	3707 FM 1960	West - Ste.	560									
City, State, Zip:	Boylown TY 775	Hou	5400	texa	ς ^	7700	68		. ,,, =			
Contact :	Tom-Hover &	llie N	ι α ς αναξιό	•		Title:		_			_	,
Phone No:	(2 81) 630 7726.	281 -	587-09	900		Fax :	28	1-5	374	220	9	
SECTION 3: Goner	el Description of th	e Waste										
	Naptel - flush an						,					
Detailed Descrip	tion of the Proce	ss Genera	ting Waste:									
flush oil	and unused produ	cts from hy	drocarbon ma	nufacturii	ng prod	cesses						
Physical State :	Liquid		Sludge		Po	wder						
	☐ Solld		Filter Cake		☐ Co	mbinatio	ır					
Color :		pale	e brown	Odc	or;		_			none		
Specific Gravity	(Water=1):		8-1.2	Den	sity:				8		!	lbs / gal
Dose this material	contain any total p	henolic con	npounds?	☐ Yes	3	₩ No				•		
	contain any para s		·	• •	_	Yes		/ No				
Is the Waste subje	ct to the benzene v	vaste operat	tion NESHAP?	(40 CFR P	art 61,	Subpart	FF)		Yes	V	No	
2812 2813	2816 2819 28 2	1 2822	2823 2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865	2869 2873 287	4 2876	2879 2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	Single-P	has	Multi-Pha	se								
Container Type :	Drum	T	ote 📖	Truck		Other (explai	n)			,.	
Container Size :	55gal											
Number Of Units):											
	Hazardous Waste lease complete, sign	•		zardous Co		Nots Form		1 hereto				
If "Yos" is it.	10001 [] no	102	0003									

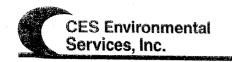
Characteristic for Toxic I		= =	0007 0011	
Characteristics for Toxic	Organics: D012 thru D043	(please list all that apply)		
Is this an "F" or "K" Listo	ed waste or mixed with one	e? 🗌 Yes 📝 No		
If "Yes", then please	list ALL applicable codes:			
Is this a commercial pro 261.33(e) or (f)?	duct or spill cleanup that w	ould carry a "U" or "P" was	te code under 40 CFR	Yes 🗸 No
If "Yes", then please	list ALL applicable codes:			
Texas State Waste Code	e No : Produc	t		
Proper U.S. State Waste	: Code No :	Non-RCRA/Non DOT r	egulated recyclable hydroca	ırbon
Class: na	UN/NA: na	PG:	na	RQ:na
Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	solid	na mg/l	na mg/l	100 %
Oil and Grease	тос	Zinc	Copper	Nickel
>1000 mg/	/i: >1500 mg/l	na mg/l	na mg/l	na mg/l
SECTION 4: Physical and 0	Chemical Data			
TO BE SUBSECTED AND A MARKET CONTRACTOR	COMPONENTS TABL	Seath Ceal Seat Colored Colore	Concentration	n Units
The material	/ product consists of the f Naptel 310 (butene, homopol		Ranges are acce	
SECTION 5: Safety Related	Data			
		pecial protective equipme	nt, please explain.	
SECTION 6: Attached Supp	porting Documents			
		ttached to this form as pa	rt of the waste approval pa	ickage.
SECTION 7: Incompatibiliti	es			
Please list all incompati exidizers	bilities (if any):			
SECTION 8: Generator's Kr	nowledge Documentation			
Laboratory analysis of the following generators kn		acteristics, listed below, W	AS NOT PERFORMED bas	sed upon the
TCLP Metals :	<u>x</u>			
TCLP Volatilies :	<u>x</u>			
TCLP Semi-Volatiles :	<u>X</u>			
Reactivity:	<u>x</u>			
•	-	2		

Corro	sivity: <u>x</u>
Ignital	bility: <u>x</u>
3	
SECTION	DN 9: Waste Receipt Classification Under 40 CFR 437
	material a wastewater or wastewater sludge?
If 'YES	', complete this section
PLEAS	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matals	Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
	ubcategory: Subpart B
_	Used oils
_	Oil-water emulsions or mixtures
_	Lubricants
_	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
	Tractionated from on Southing paint washed
	ics Subcategory Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
_	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or energies formulation

Corrosivity:

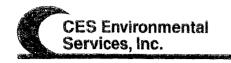
Wastewater from organic chemical product operations

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L	Tank clean-out from organic, non-petroleum sources
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
	Cadmium: 0.2 mg/L Chromium: 6.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	☐ Metals Subcatego
	☐ Olls Subcatego
	☐ Organics Subcategory
SE	CTION 10: Additional Instruction
Ch	ou cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, romium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these neentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SE	CTION 11: Generator's Certification
ab del	e information contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the over and attached description is complete and accurate to the best of my knowledge and ability to determine that no liberate or willful omissions of composition properties exist and that all known or suspected hazards have been sclosed. I certify that the materials tested are representative of all materials described by this document.
Αι	uthorized Signature: Elling Fractions Date: 6/13/09
Pr	inted Name / Title: Eleanor S. MecNeir/ MacNeir
	ES USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information: \$35/dm + trans + FSC
C	ompliance Officer: Continue Thy the
D	ate: 6-19-09 Status: Approved Rejected
A	pproval Number: 3388
į	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$35/dm + trans + FSC
`
2. Contamination Limit (maximum limit before surchages apply):
specs compatable w/product MSDS 6.5% solids
3. Surcharge Pricing:
none
4. Special Testing Requirements:
test compatability of base oil, blackoil
Call Matt/Joy w/question
5. Treatment and Handling Protocol:
blend according to compatability
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Rec	overed/Recycled (if applicable):	
8. Management for Pro-	duct Recovered/Recycled (if ap	plicable)	
8. Management for Pro	duct Recovered/Recycled (if ap	plicable)	
8. Management for Pro	duct Recovered/Recycled (if ap	plicable)	
8. Management for Pro	duct Recovered/Recycled (if ap	plicable)	



3707 FM 1960 West, Suite 560

Houston, TX 77068

Phone: 281 587-0900 • Fax: 281 587-1998

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The Contract of the Contract o		MATERI	AL SAFETY D	ATA SHEET	
SE	CTION I - PRODUCT			Hazardous Material	Identification System
SUPPLIER:	Soltex, Inc.			Health	[0]
	3707 FM1960 Wes	t, Suite 560		Flammability	[0]
	Houston, TX 77068	3	Reactivity	[0]	
EMERGENCY	TELEPHONE NUMBE	ERS:		Personal Protection	[A]
Business Hours: 8	3:30a.m 5:00p.m (28	1) 587-0900 (USA)	WHMIS Rating	[N/A]
After Hours: (281) 587-0900 (USA)			WHMIS Controlled	
, ,	CANUTEC: (613) 996-6666 CHEMTREC: 1-800-424-9300				[U]
MANUFACTURI	ER: Soltex, In	c		PRODUCT CODE #	BRZ3100/BR013101
MATERIAL NAM	ME: Naptel 31	0 Flooding Co	mpound (Formerly Bl	R 310)	
MATERIAL USE	E: Telecom	Cable Floodin	g Compound		
SECTION 11 - H	AZARDOUS INGREE	IENTS			
Hazardou	us Ingredients	Conc. % Wt/Wt		Toxicity Data LD ₅₀ /LC ₅₀	C.A.S. #
Polymeric hindere Antioxidant	ed Phenolic	0.15 - 0.30	Not available		Not available
	PHYSICAL DATA [] Liquid [] Solid [X]				

Odor and Appearance: Odorless, Pale Brown Amorphous Waxy Solid

Odor Threshold (p.p.m.): NOT AVAILABLE

Vapor Pressure (mm Hg): NOT AVAILABLE

pH: NOT AVAILABLE

Density/25°C: 0.890 Kg-Litre Typical

Vapor Density (Air = 1): NOT APPLICABLE AT AMBIENT TEMPERATURE

Evaporation Rate (n butyl acetate = 1): NOT APPLICABLE AT AMBIENT TEMPERATURE

Coefficient Of Water/Oil Distribution: NOT AVAILABLE

Boiling Point (760 mmHg): NOT AVAILABLE Viscosity (150°C) ASTM3236: 300 cps Typical

Softening Point (R and B, ASTM – E28) 100°C Typical

SECTION IV.- FIRE OR EXPLOSION HAZARD

Flammability Yes [] No [x]

Revision Number: 5 Revision Date: 110107 Supersedes: 020606
Page 1 of 4 Product Number: Naptel 310



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Means of Extinction:

CO₂, FOAM, DRY CHEMICAL.

Upper Flammability Limit:

NOT AVAILABLE

Lower Flammability Limit:

NOT AVAILABLE

Auto Ignition Temperature:

NOT AVAILABLE

Hazardous Combustion Products:

CO, CO₂

Flash Point (ASTM D92):

245°C TYPICAL

SECTION IV - FIRE OR EXPLOSION HAZARD (CONTINUED)

Explosion Data - Sensitivity to:

1) Mechanical Impact:

NIL

2) Static Discharge:

NIL

SECTION V - REACTIVITY DATA

Chemical Stability:

If no, under which conditions:

Stable [X]

Unstable []

NOT APPLICABLE

Incompatibility To

If so, which ones:

Other Substances Yes [X] No []

STRONG OXIDIZING AGENTS

Reactivity and under what conditions:

NOT APPLICABLE

Hazardous Decomposition Products:

NOT APPLICABLE

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry:

1) Skin Contact:

MAY CAUSE MILD DERMATITIS ON PROLONGED CONTACT WITH SENSITIVE OR ALLERGIC

PEOPLE

2) Eye Contact:

MINIMAL IRRITATION MAY OCCUR

3) Ingestion:

CONSIDERED TO BE NON TOXIC

4) Skin Absorption:

CONSIDERED TO BE NON TOXIC

5) Inhalation:

NOT APPLICABLE AT AMBIENT TEMPERATURE. ABOVE 100°C VAPOUR MAY CAUSE HEADACHE

AND/OR NAUSEA.

Toxicologically Synergistic Materials:

NONE KNOWN

Effects of Acute Exposure to Material:

NOT APPLICABLE

Effects of Chronic Exposure to Material:

MAY CAUSE MILD DERMATITIS TO SENSITIVE OR ALLERGIC PEOPLE

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Exposure Limit:

NOT DETERMINED

Irritancy of Material:

NOT APPLICABLE

Sensitization to Material:

NOT APPLICABLE

Teratogenicity:

NOT APPLICABLE

Carcinogenicity:

NOT APPLICABLE

Mutagenicity:

NOT APPLICABLE

Reproductive Effects:

NOT APPLICABLE

SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment:

SAFETY GLASSES AT AMBIENT TEMPERATURE

Engineering Controls (eg. ventilation, enclosed process, specify):

NONE REQUIRED AT AMBIENT TEMPERATURE. LOCAL VENTILATION RECOMMENDED WHEN HANDLING AT 100° C AND ABOVE

Leak and Spill Procedure:

CONTAIN LIQUID BY DYKING UNTIL SOLIDIFICATION OCCURS, SCRAPE UP, PLACE IN CONTAINER.

SECTION VII - PREVENTATIVE MEASURES (CONTINUED)

Waste Disposal:

RECLAIM. DISPOSE OF BY LICENSED AND RECOGNIZED OPERATOR.

Storage and Handling Procedures:

STORE AWAY FROM EXCESSIVE HEAT.

Special Shipping Requirements:

No special shipping requirement

Other Regulatory Controls:

SARA/TITLE III - TOXIC CHEMICALS LIST

THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL "TOXIC CHEMICAL RELEASE REPORTING" UNDER SEC. 313 (40 CFR 372).

TSCA INVENTORY STATUS: CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY

DOMESTIC SUBSTANCE LIST: CHEMICAL COMPONENTS LIST ON THE DSL

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL KNOWN TO THE STATE TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.

NEW JERSEY RIGHT TO KNOW LABELING INFORMATION:

Butene, homopolymer

CAS 9003-29-6

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Polymeric hindered Phenolic Antioxidant

CAS not available

SECTION VIII - FIRST AID MEASURES

Specific First Aid Measures:

SKIN CONTACT:

WASH WITH MILD SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING PRIOR TO REUSE.

EYE CONTACT:

FLUSH WITH COPIOUS QUANTITIES OF WATER FOR AT LEAST 15 MINUTES.

INGESTION:

OBTAIN MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR

SECTION IX - SPECIAL NOTES

THIS MSDS REVISION HAS CHANGES IN THE FOLLOWING SECTIONS:

SECTION I - PRODUCT INFORMATION:

Supplier Name, Manufacturers Name, Material Name

SECTION III - PHYSICAL DATA:

Density, Softening Point, Viscosity

SECTION X - PREPARATION INFORMATION: Supplier Name, Date, Revision Number, Preparation Info. Address, Phone Number

SECTION X - PREPARATION INFORMATION

Prepared by:

TECHNICAL DEPT.

Soltex, Inc.

3707 FM1960 West, Suite 560 Houston, TX 77068

Phone Number:

281 587 0900

Date:

November 1, 2007 (Revision #5)

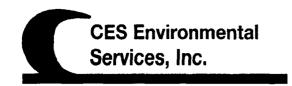
The company shall not be liable for any damages arising from the information contained on this data sheet howsoever caused, if the product in question is not employed in normal or reasonably foreseeable use or circumstances. The company shall not be liable for any indirect or consequential damages arising out of the use of the information contained on this data sheet howsoever caused.

Revision Number: 5 Page 4 of 4 Revision Date: 110107

EPAHO109000603

Supersedes: 020606

Product Number: Naptel 310



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear **Jimmy Watts**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3389

Expiration Date 6/16/2011

Generator: Ameriforge Woodville

483 CR 3020 Address:

Woodville, TX 75979

Waste Information

Name of Waste: Universal Waste bulbs

TCEQ Waste Code #: Univ

Container Type:

Detailed Description of Process Generating Waste:

spent HID and flourescent bulbs

Color: NA

Odor: NA pH: NA

Physical State:

Incompatibilities: NA

Safety Related Data/Special Handling:

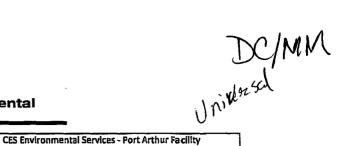
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



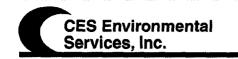


				on Facility				Ironmental Ser			•	
	4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460						2420 S. Guifway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460					
U.S. EPA ID N				1umber: 309	100	U.S. EPA ID Number: TXR000079307 ISWR Number: 88585						
1			e Permit Nu		_							
I						<u> </u>				•		
SECTION 1:	Generato	r Informati	<u>ion</u>									
Company:	Amerifor	ge Woodvil	lle									
Address:	483 CR 3	020										
City:	Woodvill	e		St.	tate:	TX	z	lip:				759 79
Contact:	Jimmy W	atts				Title:	<u>N</u>	MAINT MANAG	3ER			
Phone Num	ber:	409-28	3-8138			Fax Numbe	r: <u>4</u>	09-331-9089				
24/hr Phon	e Number	:										
US EPA ID N	lo:	TXD98	8041620									
State ID No	:				20154	SIC Code:	_			. <u>.</u> .		
	•		_									
SECTION 2:	Billing In	ormation -	. 🗆 <u>s</u>	<u>ame as Ab</u> i	ove							
Company:	Amerifor	ge Woodvil	le									
Address:	PO Box 2	070						·				
City:	Woodvill	e		St	tate:	<u>TX</u>	z	ip:				77979
Contact:	Jimmy W	atts				Title:	_					
Phone Num	ber:	409-28	3-8139			Fax Numbe	r: <u>4</u>	09-331-9089				
SECTION 3:	<u>General I</u>	<u> Description</u>	of the Was	<u>te</u>								
Name of Wa			sal Waste b									
Detailed De	scription	of Process (Senerating	Waste:								
spent HID a	nd Floures	cent bulbs										
												
spent HID a	te:	Liquid			udge			owder		· · · · · · · · · · · · · · · · · · ·		
		Liquid			udg e Iter Cake			owder ombination				
Physical Sta	te:	Liquid			_	_	C	ombination			<u></u>	
	te:	Liquid			_	Odor:	C					
Physical Sta	te: [] Liquid] Solid	**************************************		lter Cake	_) C	ombination	G.R. line/	m=1		
Physical Sta	te: [] Liquid] Solid			_	_) C	ombination	9.8 lbs/	gal		
Physical Sta Color: Specific Gra	NA wity (wate] Liquid] Solid :r=1):	ntal nhanal	☐ FII	iter Cake	Odor:	N N	ombination A Density:	9.8 lbs/	gal		
Physical Sta	NA wity (wate] Liquid] Solid :r=1):	otal phenol	☐ FII	iter Cake	Odor:) C	ombination	9.8 lbs/	gal		
Physical Sta Color: Specific Gra Does this m	NA Nity (waterial co	Liquid Solid F=1):	-	Fil	1.8	Odor:	N N	ensity:		gal		
Physical Sta Color: Specific Gra	NA Nity (waterial co	Liquid Solid F=1):	-	Fil	1.8	Odor:	N N	ombination A Density:	9.8 lbs/	gal		
Physical Sta Color: Specific Gra Does this m Does this m	NA vity (waterial con	Liquid Solid r=1): ntain any p	ara substiti	Fil	1.8 nds?	Odor: Y ounds?	N N p	ensity: No Yes				No
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste	NA vity (waterial corrected correct	Liquid Solid Talin any to	ara substitu ene waste d	File compounted pheno	1.8 nds? plic comp	Odor: Younds?	N N D	ensity: No Yes Subpart FF)	☑ No	gal Yes	2	No
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes	NA vity (waterial contact attr	Liquid Solid r=1): Intain any portion the benze waste conta	ara substiti ene waste d ins benzene	ic compounted pheno	1.8 nds? plic comp	Odor: Younds? (40 CFR Parte	N D	ensity: No Yes Subpart FF) ty Is one of th	☑ No □ e following:	Yes	Į.	. –
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812	NA vity (wateral contact the subject to subj	Liquid Solid I Solid	ara substitu ene waste d ins benzene 2816	ic compound the phenomenation is a ND if the 2819	1.8 nds? plic comp NESHAP? e SIC code 2821	Odor: Younds? (40 CFR Parte from your 128)	N D D D D D D D D D D D D D D D D D D D	ensity: No Yes Subpart FF) ty is one of the 2823	☑ No □ e following: 2824	Yes 2833		2834
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835	NA vity (wateral contact the subject to subj	Liquid Solid r=1): Intain any properties the benze waste contains and properties the benze waste solid and properties th	ara substitu ene waste d ins benzend 2816 2841	ic compound the phenomenation No. 2819	1.8 nds? plic comp NESHAP? e SIC code 2821 2843	Odor: Younds? (40 CFR Parte from your 128: 284	N N D D D D D D D D D D D D D D D D D D	ensity: No Yes Subpart FF) ty is one of the 2823 2851	☑ No ☐ e following: 2824 2861	Yes 2833 2865		2834 2869
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835 2873	NA vity (water aterial contact	Liquid Solid Tall: Intain any properties of the benzeveste contains 13 136 174	ara substitu ene waste d ins benzene 2816 2841 2876	ic compound the phenomenation No. 2819 2842 2879	1.8 nds? plic comp NESHAP? e SIC code 2821	Odor: Younds? (40 CFR Parte from your 128)	N N D D D D D D D D D D D D D D D D D D	ensity: No Yes Subpart FF) ty is one of the 2823	☑ No □ e following: 2824	Yes 2833	Į.	2834
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835	NA vity (water aterial contact	Liquid Solid r=1): Intain any properties the benze waste contains and properties the benze waste solid and properties th	ara substitu ene waste d ins benzend 2816 2841	ic compound the phenomenation No. 2819	1.8 nds? plic comp NESHAP? e SIC code 2821 2843	Odor: Younds? (40 CFR Parte from your 128: 284	N N D D D D D D D D D D D D D D D D D D	ensity: No Yes Subpart FF) ty is one of the 2823 2851	☑ No ☐ e following: 2824 2861	Yes 2833 2865	· ·	2834 2869
Physical Sta Color: Specific Gra Does this m Does this m Is the Waste Answer "Yes 2812 2835 2873 3312	NA vity (water aterial contact	Liquid Solid Tel: Intain any properties To the benze To the benz To the	ene waste o ins benzene 2816 2841 2876 4959	ic compound the phenomenation No. 2819 2842 2879	1.8 nds? blic comp NESHAP? e SIC code 2821 2843 2891	Odor: Younds? (40 CFR Parte from your 128: 284	N N D D D D D D D D D D D D D D D D D D	ensity: No Yes Subpart FF) ty is one of the 2823 2851	☑ No ☐ e following: 2824 2861	Yes 2833 2865	D	2834 2869
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SECTION 5:	Safety Rel	ated Data					
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SECTION 8:	Generator	's Knowledge Do	cumentation				
		the hazardous wa		cs. listed belo	w. WAS NOT PE	RFORMED	
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SECTION 9: V	Vaste Recei	ot Classification U	nder 40 CFR 437 (I	Prtaining to Pre	-Trestment Req	ulrements fo	r Centralized Waste Treatment
<u>Facilities</u>)							
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	if 'Yes',	, complete this sec	tion.				
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	☐ Interce	ptor wastes									
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(1)											
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(2)											
()	If the w	aste contain	s oil and gre	ase less th	an 100 mg	/L, and has any o	of the c	ollutant	s listed belo	w in conce	entrations in
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			n: 0.2 mg/L								
		Chromiu	m: 8.9 mg/	L							
		Copper:	4.9 mg/L								
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(3)		el above any	_	s listed ab	_	/L, and does not este should be cl				-	romium, copper,
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PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$1.25/bulb for 4ft, \$1.50/bulb for 5ft, \$ for HID \$1.70 each
2. Contamination Limit (maximum limit before surchages apply):
NA
-

3. Surcharge Pricing:
NA NA
A. Smariol Tostina Bassisamanta.
4. Special Testing Requirements: NA
5. Treatment and Handling Protocol:
UNIVERSAL WASTE
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

	duct Recovered/Recycle	d (if applicable):		
NA				
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8. Management	for Product Recovered	/Recycled (if applicable)		
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	for Product Recovered	/Recycled (if applicable)		
	for Product Recovered	/Recycled (if applicable)		

Dana Carter

From: Sent:

To:

Jimmy Watts [JWatts@ameriforge.com]

Thursday, April 09, 2009 6:45 AM

Jimmy Watts

Subject:

Emailing: Grainger MSDS Lookup





X Close this window

Common Name: MERCURY VAPOR LAMPS

Manufacturer: GENERAL ELECTRIC

MSDS Revision Date: 8/1/2004

Grainger Item Number(s): 1C251, 1C257, 1C263, 1C277, 1C279, 1C310, 1C312, 1C340, 1C342, 1C34

1C347, 1C425, 1C427, 1E067, 1E097, 1E099, 1E101, 1E103, 1E212, 1E216 1E219, 1E261, 1E279, 1E637, 1E639, 1E641, 1E643, 1E671, 1E674, 1E679 1E686, 1E690, 1E692, 1E694, 1E871, 1E973, 1F258, 1F260, 1F276, 1F278, 1F346, 1F348, 1F396, 1F398, 1G980, 1K015, 1K253, 1K289, 1K291, 1K425 1MM51, 1MM52, 1MM55, 1MM67, 1MM68, 1PCY8, 1PCY9, 1PCZ1, 1PCZ2, 1PCZ3, 1PCZ4, 1PCZ5, 1RD93, 1RF20, 1RF21, 1RF22, 1RF31, 1VZ60, 2C88 2F103, 2F105, 2F107, 2F109, 2F111, 2F113, 2F192, 2F196, 2F198, 2F200, 2F202, 2F510, 2F942, 2F944, 2F968, 2F970, 2TJ27, 2TJ28, 2V450, 2V658, 2V659, 2V712, 3JJ88, 3JJ89, 3JJ92, 3JJ96, 3JJ97, 3JK01, 3JK02, 3JK41, 4DA14, 4DA27, 4HP23, 4HP24, 4LV88, 4PL04, 4PL05, 4PL06, 4PL07, 4PL08 4V484, 4V516, 4V518, 4V550, 4V561, 4V565, 4V603, 4WW46, 4WW54, 5HB77, 5HB78, 5HB84, 5HB87, 5HB88, 5HB89, 5HB90, 5HB91, 5HB92, 5HB93, 5HB94, 5TB69, 5TB70, 5V075, 5V414, 5V658, 5V691, 5V792, 5V79 5XN44, 5XN45, 5XN49, 5XN50, 5XN56, 5XN57, 5XN59, 5XN60, 5XN61, 5XN64, 5XN65, 5XN67, 5XN68, 6V040, 6V041, 6V111, 6V630, 6V631, 6V698, 6V699, 6V746, 6V747, 6V748, 6V749, 6V751, 6V752, 6V753, 6V750 6V757, 6VR49, 6XT44, 6XT87, 6XT88, 6XT89, 6XT90, 6XT91, 6XT92, 6XT93

6XT94, 6XV24, 6XV25, 6XV27, 6XV28, 6XV42, 6YG53

Manufacturer Model Number(s):

MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

I. PRODUCT IDENTIFICATION

II. LAMP MATERIALS AND HAZARDOUS INGREDIENTS

III. HEALTH CONCERNS

IV. DISPOSAL CONCERNS

GE CONSUMER & INDUSTRIAL LIGHTING

LAMP MATERIAL INFORMATION SHEET

MATERIAL SAFETY DATA SHEETS (MSDS)

INFORMATION AND APPLICABILITY:

THE MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) FOR CHEMICALS ARE NOT APPLICABLE TO MANUFACTURED ARTICLES SUCH AS LAMPS. NO MATERIAL CONTAINED IN A LAMP IS RELEASED DURING NORMAL USE AND OPERATION.

THE FOLLOWING INFORMATION IS PROVIDED AS A SERVICE TO OUR CUSTOMERS. THE FOLLOWING LAMP MATERIAL INFORMATION SHEET CONTAINS APPLICABLE MATERIAL SAFETY DATA SHEET INFORMATION.

I. PRODUCT IDENTIFICATION

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GE MERCURY VAPOR LAMPS

GE CONSUMER & INDUSTRIAL LIGHTING 1975 NOBLE ROAD NELA PARK CLEVELAND, OH 44112 (216) 266-2222

II. LAMP MATERIALS AND HAZARDOUS INGREDIENTS

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GLASS:

THESE LAMPS CONSIST OF AN INNER QUARTZ ARC TUBE ENCLOSED IN AN OUTER ENVELOPE OF HEAT-RESISTANT GLASS. DEPENDING ON THE LAMP TYPE, THE ENVELOPE IS EITHER CLEAR OF COATED WITH ONE OF TWO DIFFERENT MATERIALS.

PHOSPHOR:

THE PHOSPHOR USED ON THE OUTER ENVELOPE OF THE "DX" TYPE LAMPS CONSISTS OF YTTRIUM VANADATE PHOSPHATE. THIS MATERIAL, LIKE MOST VANADIUM COMPOUNDS, IS RELATIVELY INSOLUBLE, AND APPEARS TO HAVE A MUCH LOWER TOXICITY THAN VANADIUM PENTOXIDE BUT MAY ELICIT SOME SIMILAR SYMPTOMS AT HIGH EXPOSURE LEVELS. EXCESSIVE INHALATION EXPOSURE TO VANADIUM PENTOXIDE MAY RESULT IN IRRITATION OF THE NASAL PASSAGES AND RESPIRATORY TRACT, COUGH, DIFFICULTY IN BREATHING, AND BRONCHITIS. HOWEVER, THE YTTRIUM VANADIUM PHOSPHATE FROM THE BREAKAGE OF ONE OR A SMALL NUMBER OF LAMPS SHOULD NOT RESULT IN A SIGNIFICANT EXPOSURE.

THE PHOSPHOR USED ON THE OUTER ENVELOPE OF THE "WDX" LAMPS IS THE SAME AS THAT IN THE "DX" LAMPS BUT WITH THE ADDITION OF A SMALL AMOUNT OF MAGNESIUM GERMANATE PHOSPHOR, A TOXICOLOGICALLY RELATIVELY INERT MATERIAL.

ARC TUBE:

THE QUARTZ ARC TUBE CONTAINS A SMALL AMOUNT OF MERCURY, RANGING FROM 14 MILLIGRAMS IN A 50 WATT UP TO 250 MG IN A 1000 WATT LAMP. THE ARC TUBE CONTAINS A SMALL AMOUNT OF INERT GAS ARGON USED AS A FILL GAS. IT ALSO CONTAINS A SMALL AMOUNT OF OTHER MATERIALS, USED AS AN EMISSION MIX ON THE ELECTRODES, BUT THERE WOULD BE NO SIGNIFICANT EXPOSURE FROM LAMP BREAKAGE.

ALSO CONTAINED IN THE ARC TUBE ARE SMALL AMOUNTS OF SODIUM AND SCANDIUM

IODIDE, AND IN SOME CASES THORIUM IODIDE. NONE OF THESE MATERIALS ARE EXPECTED TO BE A HAZARD IN THE SMALL QUANTITIES PRESENT IN THE ARC TUBE. THE COATING ON THE END(S) OF THE ARC TUBE IS ALUMINUM OXIDE, A MATERIAL GENERALLY CONSIDERED TO HAVE A LOW ORDER OF TOXICITY.

METALS:

INTERNALLY, THE SUPPORT WIRES USED IN THE LAMP CONSTRUCTION ARE MADE FROM NICKEL-COATED IRON OR STAINLESS STEEL WHILE THE ELECTRODES ARE TUNGSTEN.
MANY OF THE MERCURY LAMP TYPES WILL USE A BRASS BASE AND HAVE LEAD-SOLDERED CONNECTIONS TO THAT BASE.

III. HEALTH CONCERNS

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MERCURY EXPOSURE:

THE AIR CONCENTRATION OF MERCURY RESULTING FROM THE BREAKAGE OF ONE OR A SMALL NUMBER OF LAMPS SHOULD RESULT IN NO SIGNIFICANT EXPOSURE TO THE INDIVIDUAL. HOWEVER, IF BREAKING A LARGE NUMBER OF LAMPS FOR DISPOSAL, APPROPRIATE MONITORING, CONTROLS AND EQUIPMENT SHOULD BE IMPLEMENTED TO CONTROL AIRBORNE MERCURY AND DUST LEVELS OR SURFACE CONTAMINATION. SUCH WORK SHOULD BE DONE IN A WELL-VENTILATED AREA, AND LOCAL EXHAUST VENTILATION OR PERSONAL PROTECTIVE EQUIPMENT MAY BE NEEDED.

ULTRAVIOLET (UV) RADIATION:

THE QUARTZ ARC TUBE, WHEN OPERATING, GENERATES A CONSIDERABLE AMOUNT OF ULTRAVIOLET RADIATION. THE UV IS FILTERED TO ACCEPTABLE LEVELS BY THE GLASS OUTER ENVELOPE DURING NORMAL USE. HOWEVER, IT THE OUTER ENVELOPE IS BROKEN, THE UV FILTERING IS LOST. LAMPS HAVING ORDERING CODES BEGINNING WITH THE LETTERS "HR" OR "HSB" HAVE THE FOLLOWING WARNING NOTICE REQUIRED UNDER FEDERAL REGULATION 21 CFR 1040.30:

"WARNING:

THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORTWAVE ULTRAVIOLET RADIATION IF OUTER ENVELOPE OF THE LAMP IS BROKEN OR PUNCTURED, AND THE ARC TUBE CONTINUES TO OPERATE. DO NOT USE WHERE PEOPLE WILL REMAIN FOR MORE THAN A FEW MINUTES UNLESS ADEQUATE SHIELDING OR OTHER SAFETY PRECAUTIONS ARE USED. GENERAL ELECTRIC COMPANY HAS COMMERCIALLY AVAILABLE SAF-T-GARD MERCURY AND MULTI-VAPOR LAMPS THAT WILL AUTOMATICALLY EXTINGUISH WHEN THE OUTER ENVELOPE IS BROKEN."

THE SELF-EXTINGUISHING METAL HALIDE LAMPS REFERRED TO ABOVE HAVE ORDER CODES BEGINNING WITH THE LETTERS "HT" OR "MVT". IF THE OUTER GLASS ENVELOPE OF A SAF-T-GARD LAMP IS BROKEN, ALTHOUGH THE ARC TUBE WILL HAVE SELF-EXTINGUISHED, ITS SUPPORT STRUCTURE WILL STILL BE ELECTRICALLY CONNECTED AND COULD PRESENT AN ELECTRICAL SHOCK HAZARD. THEREFORE, REGARDLESS OF THE TYPE, IF THE OUTER ENVELOPE OF THE LAMP IS BROKEN, TURN THE POWER OFF BEFORE REPLACING THE LAMPS.

IV. DISPOSAL CONCERNS

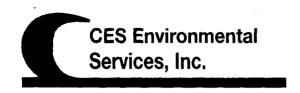
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TCLP:

A TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST CONDUCTED ON THE LAMP FOR LEAD OR MERCURY COULD CAUSE THE LAMP TO BE CLASSIFIED AS A HAZARDOUS WASTE. MERCURY LAMPS USE LEAD SOLDER ON THE LAMP BASE AND MERCURY IN THE ARC TUBE. THE LEAD SOLDER OR MERCURY VAPOR SHOULD POSE LITTLE RISK OF EXPOSURE UNDER NORMAL USE AND HANDLING. WHILE SMALL NUMBERS OF THESE LAMPS PLACED IN THE ORDINARY TRASH SHOULD NOT APPRECIABLY EFFECT THE NATURE OR METHOD OF DISPOSAL OF THE TRASH IN MOST STATES, UNDER SOME CIRCUMSTANCES

DISPOSAL OF LARGE QUANTITIES MAY BE REGULATED. YOU SHOULD REVIEW YOUR WASTE HANDLING PRACTICES TO ASSURE THAT YOU DISPOSE OF WASTE LAMPS PROPERLY. PLEASE CHECK WITH STATE ENVIRONMENTAL DEPARTMENTS REGARDING INDIVIDUAL STATE DISPOSAL REQUIREMENTS.

AUGUST 2004



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/22/2009

Dear George Sladechek

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3396

Expiration Date 6/22/2011

Producer: Southwest Shipyard

Address:

18310 Market Street

Channelview, TX 77530

Material / Product Information

Name of Material / Product Sulfuric Acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

From barge cleaning operations.

Color: Milky to brownish red Odor: Sulfur / H2S

pH: <2

Physical State:

Incompatibilities: metals, oxidizing agents Safety Related Data/Special Handling:

Chemical Suite, Rubber Gloves, Rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





Product inter

CES Environmental Services – Houston Facility 4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

CES Environmental Services - Por Azimur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585

SECTION 1: Mate	rial Producer Inform	ation				
Company:	Southwest Shipyare					
Address:	18310 Market Stree					
City, State, Zip:	Channelview, TX	77530				
Contact:	George Sladecek			Title:		
Phone No:	(281) 860-3200			Fax No:	(281) 860)-3215
24/hr Phone:						
U.S. EPA I.D. No:	N/A					
State I.D.	NA			SIC Code:	NA	
SECTION 2: Billin	g Information – S	ame as Ahove				
Company:	Southwest Shipyard,					
Address:	18310 Market Street					
City, State, Zip:	Channelview, TX 77	530				
Contact:	George Sladecek	J30	Title:			
Phone No:	281-860-3200		Fax No:	281-860-3215	, -	
PHODE NO.	201-000-3200		EBX 140:	281-800-3213	<u>, </u>	
SECTION 3: Gene	ral Description of the	Material / Pro	<u>duct</u>			
	Product: <u>Sulfuric Ac</u> n of Process Generati		g the Materi	al / Product:	From barge	cleaning operations.
Physical State:	Liquid □ Solid	☐ Sludge ☐ Filter Ca	ke 🗆	Powder Combination	n	
Color: Milky to brow	<u>wnish red</u> O	dor: <u>Sulfur/H</u>	2S_smell			
Specific Gravity (w	ater=1): <u>1.7</u>	Density: <u>14</u> l	lbs/gal			
Does this material c	ontain any total phen	olic compound	s? 🔲 Yes	⊠ No		
Does this material c	ontain any para subs	tituted phenolic	compounds	? 🔲 Yes 🛭	<u>No</u>	
Layers:	⊠ Single-phase	☐ Mul	lti-phase			
Container Type:	⊠ Drum	☐ Tote		Truck		Other (explain)
Container Size:	<u>55 Gal</u>	 -				
Frequency:	☐ Weekly	☐ Monthly	, 🖂	Quarterly	П	Yearly
Number of Units (co		Other:		4		~~~· ··
Proper U.S. DOT S			cid (with mo	re than 51% ac	eid)	
Class: 8	UN/NA	L: UN1830		PG: PG	II	RQ: 100

Flash Point >150	pH	N/A	N/A	Solids 1%
Oil&Grease <1500mg/l	TOC >15000mg/l	Zinc Omg/l	Copper 2,74mg/l	Nickel 7.11mg/l

SECTION 4: Physical and Chemical Data

CONTROL MANAGER	Control of the contro	Uaits
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid	60-80	%
Water	20-40	%
		
		
		
		1

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Chemical Suit, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. Lab Memo 09-110

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Metals, Oxidizing Agents

SECTION 8: Material Producer's Certification

The information contained herein is based on \(\square\) generator knowle attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or stested are representative of all materials described by this document Authorized Signature:	knowledge and ability to determine that no deliberate or willful uspected hazards have been disclosed. I certify that the materials
Printed Name/Title:	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager:	
Date: 6-22-09 Approved Rejected	
Approval Number:	

18310 Market Street Channelview, TX 77530 281-860-3200 281-860-3215

Southwest Shipyard L.P.



To:	Jenny Rust	From:	George Sladecek	
Fax:	(713) 748-8664	Pages:	3	
Phone:	(713) 367-8581	Date:	6/22/2009	
Re:	Sulfuric acid profile sheet	CC:		
Urgent		☐ Please Comment	☐ Please Reply	☐ Please Recycle
• Com	ments;			

Jenny,

Attached is the profile sheet for the sulfuric acid. We'll probably arrange for shipping but I'll let you know.

You can reach me at 713-417-4162 with any questions.

George Sladecek



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joe Camp

CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root

Date: 6/08/09

Lab Memo: 09-110

Subject: Southwest Shipyard Sulfuric Acid Evaluations 0609-05 & 06

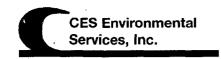
Two samples of sulfuric acid from Southwest Shipyard have been evaluated for potential use at CES. These samples are evaluations 0609-05 and 06. These samples supposedly represent material from barge cleaning operations and another unknown source and are a one-time acquisition. There are 19 drums of evaluation 0609-05 and 32 drums of evaluation 0609-06 material. While neither of these sources are great material, they can be used to process our waste water at CES.

Evaluation 0609-05 is a milky looking acid with a density of 1.788. This equates to an acid strength of around 85% using a density table. A semi-quantitative analysis with caustic shows this material to be around 72.5% as sulfuric acid. This is a more accurate value for the acid strength. This material has a low TOC of 374 ppm but is high in nickel, copper and chromium. Considering how much acid is used in relation to the volume of water processed, the metals are not really going to be an issue. This acid is obviously spent with something and not just virgin acid washed from a barge.

Evaluation 0609-06 is a dark looking acid with a density of 1.715. This equates to an acid strength of around 78% using a density table. A semi-quantitative analysis with caustic shows this material to be around 62.5% as sulfuric acid. As density tables are for mixtures of acid and water only they really do not apply in this particular case. This acid smells like an acid from an alkylation process and has a high TOC of 23,020. Metals are acceptable with this acid.

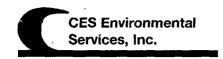
While neither of these acids are great material for our use, they can be used to treat our process water. The high metals and/or TOC are really not much of an issue considering we may use 100 gallons of acid to treat 50,000 gallons of water, and the dilution factor causes these issues to become non-issues. Both are recommended for acquisition if our profit is worth our time and effort. The table below summarizes the analytical testing.

Southwest Shipyard									
Evaluations 0609-05 & 06									
0609-05 0609-06									
Density	1.788	1.715							
Sulfuric Acid, % by titration	72.5	62.5							
TOC, mg/L	374	23,020							
Metals, ppm	1 1 1								
Ni	7.11	1.28							
Zn	0.00	0.00							
Cu	2.74	0.68							
Cd	0.00	0.00							
Cr	5.32	1.20							



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$75 / DM, \$70/ HR for transportation
•	
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	To be used in w/w nuetralization. Lab Memo #09-110
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);

Laboratory Analysis Report

Job ID: 09060229



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

0609-07 Southwest Shipyard

Report To:

Client Name:

Attn:

CES Environmental

Joe Camp

Client Address:

4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021

P.O.#.: 0609-07

Total Number of Pages: 7

Sample Collected By:

Date Collected: 06/08/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Spent Sulfuric Acid 0609-07

Organic Liquid

09060229.01



Released By: Shantall Carpenter

Title: Date: Project Manager 6/17/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/30/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 06/09/2009 10:10

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09060229

Date:

6/17/2009

General Term Definition

Post Weight Back-Wt Back Weight Post-Wt BRL. **Below Reporting Limit** ppm parts per million cfu colony-forming units Pre-Wt Previous Weight Conc. Concentration Q Qualifier D.F. Dilution Factor RegLimit Regulatory Limit

Front-Wt Front Weight RPD Relative Percent Difference Reporting Limit LCS Laboratory Check Standard **RptLimit**

LCSD Laboratory Check Standard Duplicate SDL Sample Detection Limit MS Matrix Spike Surrogate

MSD Matrix Spike Duplicate Time MW Molecular Weight TNTC Too numerous to count

Qualifier Definition

M2

Matrix Spike/Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference."The sample randomly selcted as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."

surr

LABORATORY TEST RESULTS

ab

Job ID: 09060229

Date 6/17/2009

Client Name: Project Name: CES Environmental

0609-07 Southwest Shipyard

Southwest Shipyare

Client Sample ID:

Spent Sulfuric Acid 0609-07

Date Collected: Time Collected:

06/08/09

:u.

15:00

Job Sample ID:

09060229.01

Sample Matrix

Organic Liquid

Attn: Joe Camp

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg I	Limit Q Date Time	Analyst
SW-846 6010C	Total Metals						
	Arsenic	BRL	mg/Kg	1	0.5	06/16/09 16:24	TK
	Barium	BRL	mg/ K g	1	0.5	06/16/09 16:24	TK
	Cadmium	BRL	mg/Kg	1	0.5	06/16/09 16:24	TK
	Chromium	1.959	mg/Kg	1	0.5	06/16/09 16:24	TK
	Lead	BRL	mg/Kg	1	0.5	06/16/09 16:24	TK
	Selenium	BRL	mg/Kg	1	0.5	06/16/09 16:24	TK
	Silver	BRL	mg/ K g	1	0.5	06/16/09 16:24	TK
SW-846 7470A	Total Metals - Mercury		•				
	Mercury	BRL	mg/Kg	1	0.01	06/09/09 16:38	SS

QUALITY CONTROL CERTIFICATE



Job ID: 09060229

Date:

6/17/2009

mg/Kg

Analysis: Total Metals - Mercury Method: SW-846 7470A Reporting Units:

Samples in This QC Batch: 09060229.01

Digestion: PB09060943 **Prep Method:** SW-846 7470A **Prep Date:** 06/09/09 11:00 **Prep By:** Ssrinivasan

QC Type: Method Blank												
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual						
Mercury	7439-97-6	BRL	mg/Kg	1	0.01							

QC Type:	LCS and LCSI	0					-				
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury		0.1	0.097	96.7	0.1	0.101	101	4	20	80-120	

QC Type: MS and MSD												
QC Sample ID: 09066	0148.01										1	
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec		
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual	
Mercury	BRL	_0.1	0.115	107						70-130		

QUALITY CONTROL CERTIFICATE



Job ID: 09060229

Date:

6/17/2009

Analysis: Total Metals

Method:

SW-846 6010C

Reporting Units: mg/Kg

QC Batch ID: Qb09061142

Created Date : 06/11/09

Created By: Tkhuc

Samples in This QC Batch:

Digestion:

09060229.01

PB09061123

Prep Method: SW-846 3050B

Prep Date: 06/11/09 12:00 **Prep By:**

Tkhuc

QC Type: Method B	QC Type: Method Blank										
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qua					
Arsenic	7440-38-2	BRL	mg/Kg	1	0.5						
Barium	7 44 0-39 - 3	BRL	mg/Kg	1	0.5						
Cadmium	7440 -4 3-9	BRL	mg/Kg	1	0.5	-					
Chromium	7440-47-3	BRL	mg/Kg	1	0.5						
Lead	7439-92-1	BRL	mg/Kg	1	0.5	}					
Selenium	7782-49 - 2	BRL	mg/Kg	1	0.5						
Silver	7440-22-4	BRL	mg/Kg	1	0.5						

QC Type: LC:	S and LCSD)									
Parameter	•	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		25	23.73	94.9	25	23.54	94.2	0.8	20	80-120	T
Barium		25	25.70	103	25	25.35	101	1.4	20	80-120	
Cadmium		25	25.19	101	25	24.97	99.9	0.9	20	80-120	
Chromium		25	25.08	100	25	25.16	101	0.3	20	80-120	
Lead		25	25.21	101	25	24.96	99.8	i	20	80-120	1
Selenium		25	21.29	85.2	25	21.19	84.8	0.5	20	80-120	
Silver		25	25.17	101	25	25.28	101	0.4	. 20	80-120	

QC Type: MS and MSI)										
QC Sample ID: 09060	281.04										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	1.436	25	20.27	75.3						70-130	
Barium	120.3	25	135	58.8						70-130	M2
Cadmium	BRL	25	21.00	84						70-130	
Chromium	9.241	25	27.10	71.4						70-130	
Lead	59.7	25	83.19	94]]					70-130	1 1
Selenium	BRL	25	17.37	69.5						70-130	M2
Silver	BRL	25	12.85	51.4	1.					70-130	M2

Refer to the Definition page for terms.

The Chain of Custody is a Legal Document

Page.

Chain of Custody

A & B Labs

EPAHO109000628



Sample Condition Checklist

Date: 06/17/09

A&B	JobID: 09060229	Date Received	: 06/	09/2009		Time	Received :	10:10AN	1	
lier	t Name : CES Environmental		-							
em	perature : 25.6°C	Sample pH :	n/a							
	· ·			<u> </u>						_
		C	heck Pa	ints					Yes	No
1.	Cooler seal present and signed.								N/A	
2.	Sample(s) in a cooler.									Х
3.	If yes, ice in cooler.									х
4.	Sample(s) received with chain-of-	custody.							Х	
5.	C-O-C signed and dated.				·				Х	
6. ——	Sample(s) received with signed sa	ample custody se	al.						N/A	
7.	Sample containers arrived intact. (Х	L
8.	•	uid Sludge	Solid	Cassette	Tube	Bulk —	Badge	Food	Oth	er
			<u></u>						X	
9. LO.	Sample(s) were received in appropriate Sample(s) were received with propriate sample(s) were received with propriate sample(s).		·		-				N/A	
1.	All samples were logged or labeled								X	
2.	Sample ID labels match C-O-C ID's								X	
 .3.	Bottle count on C-O-C matches bot								X	
L4.	Sample volume is sufficient for an								X	
.5.	Samples were received within the	hold time.							Х	
L 6.	VOA vials completely filled.								N/A	
L7.	Sample accepted.		_	 .		<u></u>			X	_
	ments : Include actions taken to res	solve discrepanci	es/probl	em:					·	
ient	is aware of temperature requirements.									
Rece	ived by : Ruwadia			Check in	by/date:	Dwarner	/ 06/09/2009			
				3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-11-200		,,, 2005			
	: 713-453-6060							ww.ablabs		



Material Safety Data Sheet

From: Vinquiry, Inc. 7795 Bell Road Windsor, CA 95492



24 hour Emergency Telephone: Chemtrec: 1-800-424-9300

Outside U.S. and Canada Chemtrec: 202-483-7616

NOTE: CHEMTREC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All Non-emergency questions should be directed to Customer Service (1-707-838-6312) for assistance.

Sulfuric Acid 1+3

SULFURIC ACID, 10 - 51%

MSDS Number: SA264 --- Effective Date: 01/01/01

1. Product Identification

Synonyms: Oil of vitriol; Babcock acid; sulphuric acid

CAS No.: 7664-93-9 **Molecular Weight:** 98.07

Chemical Formula: H2SO4 in H2O

Vinquiry Inc. Product Codes: 10-264-0000, 10-264-0118, 10-264-0237, 10-264-0473, 10-264-0946

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sulfuric Acid Water	7664-93-9 7732-18-5	10 - 51% 49 - 90%	Yes No

3. Hazards Identification

Emergency Overview

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH. WATER REACTIVE. CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

VINQUIRY INC. SAFETY DATA Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison) Flammability Rating: 0 - None

Reactivity Rating: 3 - Severe (Water Reactive)

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER

GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat, and labored breathing. May cause lung edema, a medical emergency.

Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow ingestion or skin contact. Circulatory shock is often the immediate cause of death.

Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow skin contact or ingestion. Circulatory shock is often the immediate cause of death.

Eve Contact:

Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. Can cause blindness.

Chronic Exposure:

Long-term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion:

DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Excess acid on skin can be neutralized with a 2% solution of bicarbonate of soda. Call a physician immediately.

Eye Contact:

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

5. Fire Fighting Measures

Fire:

Concentrated material is a strong dehydrating agent. Reacts with organic materials and may cause ignition of finely divided materials on contact.

Explosion:

Contact with most metals causes formation of flammable and explosive hydrogen gas.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Do not use water on material. However, water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving this material. Stay away from sealed containers.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

NEUTRASORB(R) or TEAM(R) 'Low Na+' acid neutralizers are recommended for spills of this product.

7. Handling and Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Do not wash out container and use it for other purposes. When diluting, always add the acid to water; never add water to the acid. When opening metal containers, use non-sparking tools because of the possibility of hydrogen gas being present. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

For Sulfuric Acid:

- OSHA Permissible Exposure Limit (PEL) -

1 mg/m3 (TWA)

- ACGIH Threshold Limit Value (TLV) -

1 mg/m3(TWA), 3 mg/m3 (STEL), A2 - suspected human carcinogen for sulfuric acid contained in strong inorganic acid mists.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, *A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with an acid gas cartridge and particulate filter (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P particulate filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

```
Appearance:
Clear oily liquid.
Odor:
Odorless.
Solubility:
Miscible with water, liberates much heat.
Specific Gravity:
1.40 (50%), 1.07 (10%)
1 N solution (ca. 5% w/w) = 0.3; 0.1 N solution (ca. 0.5% w/w) = 1.2; 0.01 N solution (ca. 0.05% w/w)
= 2.1.
% Volatiles by volume @ 21C (70F):
No information found.
Boiling Point:
ca. 290C (ca. 554F) (decomposes at 340C)
Melting Point:
3C (100%), -32C (93%), -38C (78%), -64C (65%).
Vapor Density (Air=1):
3.4
```

Vapor Pressure (mm Hg):

1 @ 145.8C (295F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Concentrated solutions react violently with water, spattering and liberating heat.

Hazardous Decomposition Products:

Toxic fumes of oxides of sulfur when heated to decomposition. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Water, potassium chlorate, potassium perchlorate, potassium permanganate, sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing and reducing agents and many other reactive substances.

Conditions to Avoid:

Heat, moisture, incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 2140 mg/kg; inhalation rat LC50: 510 mg/m3/2H; standard Draize, eye rabbit, 250 ug (severe); investigated as a tumorigen, mutagen, reproductive effector.

Carcinogenicity:

Cancer Status: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Sulfuric Acid (7664-93-9)	No	No	None
Water (7732-18-5)	No	No	None

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition. **Environmental Toxicity:**

LC50 Flounder 100 to 330 mg/l/48 hr aerated water/Conditions of bioassay not specified; LC50 Shrimp

 $80\ to\ 90\ mg/l/48\ hr$ aerated water /Conditions of bioassay not specified; LC50 Prawn 42.5 ppm/48 hr salt water /Conditions of bioassay not specified.

This material may be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SULFURIC ACID (WITH NOT MORE THAN 51% ACID)

Hazard Class: 8 UN/NA: UN2796 Packing Group: II

Information reported for product/size: 200L

International (Water, I.M.O.)

Proper Shipping Name: SULPHURIC ACID (WITH NOT MORE THAN 51% ACID)

Hazard Class: 8 UN/NA: UN2796 Packing Group: II

Information reported for product/size: 200L

15. Regulatory Information

Chemical Inventory Status - Part 1	1\					
Ingredient	TSC	A EC	Japan	Australia		
Sulfuric Acid (7664-93-9)		s Yes	Yes	Yes		
Water (7732-18-5)	Ye	s Yes	Yes	Yes		
Chemical Inventory Status - Part 2\						
Ingredient	Kor	ea DSI	NDSL	Phil.		
Sulfuric Acid (7664-93-9)		s Yes	No	Yes		
Water (7732-18-5)	Ye	s Yes	No	Yes		
	-SARA 302		SAR	A 313		
Ingredient	RQ TPQ	Li	st Che	mical Catg.		

Sulfuriç Acid (7664-93-9) Water (7732-18-5)	1000 100 No No		No No	
\Federal, State & International	Regulations	- Part 2\-		
~	annar t	-RCRA-		
Ingredient	CERCLA	261.33	8 (a) 	
Sulfuric Acid (7664-93-9)	1000	No	No	
Water (7732-18-5)	No	No	No	
Chemical Weapons Convention: No TSCA	12(b): No	CDTA:	Yes	
SARA 311/312: Acute: Yes Chronic: Ye	es Fire: No	Pressure:	No	
Reactivity: Yes (Pure / Liquid)				

Australian Hazchem Code: 2P Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 2 Other: Water reactive

Label Hazard Warning:

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH. WATER REACTIVE. CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

Label Precautions:

Do not get in eyes, on skin, or on clothing.

Do not breathe mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Do not contact with water.

Label First Aid:

In all cases call a physician immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Excess acid on skin can be neutralized with a 2% bicarbonate of soda solution. If swallowed, DO NOT INDUCE VOMITING, Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

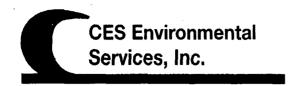
Product Use:

Laboratory Reagent.

Revision Information:

Disclaimer

Vinquiry Inc. provides this information in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to laboratory use of this material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Vinquiry Inc. will not be responsible for damages resulting from use or reliance upon this information.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/23/2009

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3390

Expiration Date 6/23/2011

Generator: Global Entergy Services

Address: 11616 Galayda

Houston, TX 77086

Waste Information

Name of Waste: Unused oil and Debris

TCEQ Waste Code #: CESQ4091

Container Type:

Detailed Description of Process Generating Waste:

cleaning unused oil from hoses combined in drums with PPE

Color: dark

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 DB/min

SECTION 1: Generator Information Company: Address: City, State, Zip: Contact: Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D. SIC Code:
SECTION 2: Billing Information - Same as Above Company: Address: City, State, Zip: Contact: Phone No: 901.483.31412.0ff C Fax No: 121.541.4829.6611
Name of Waste: Unused oil h Debris Detailed Description of Frocess Generating Waste: cleaning unused oil from hoses combined in drums with PPE Physical State: Liquid Sludge Powder Solid Filter Cake Combination
Physical State:
Does this material contain any total phenolic compounds? Yes No
Layers: NA Single-phase Multi-phase
Container Type:
Frequency:
Proper U.S. DOT Shipping Name: Van Valardous Nan Veguated Waste Class: UN/NA: PG: RQ:

Flash Point	19 P	Reactive Sulfides	Reactive Cya	nides	₹80 _%	
Oil&Grease	TOC	Zinc	Copper	Nickel	70	
mg/l	mg/l	mg/l	mg/l		ng/l	
SECTION 4: Ph	vsical and Chemica	I Data				
	COMPONE	NTS TABLE		oncentration	o Uni	its
T. T	he waste consists of	the following materials		es are accep	table or	%
01051U				0-100		6
die				101		8
PPE				90-100) 0	6
oily wat	er			0-5	67	2
·						
	· · · · · ·					
ECTION 5: Sa	fety Related Data					
f the handling o	f this waste requires	s the use of special protecti	ive equipment, please	explain.		
SECTION 6: At	tached Supporting	Documents				
		or analysis attached to this	form as part of the w	acta apprava	l package	
JIST AIT GOCKINGII	is, motes, data, and/	or amalysis attached to this	TOTAL AS PART OF LIKE W	azre abbiosa	ı hacwake	
SECTION 7: In						
	companionities					
	<u>compatibilities</u> ompatibilities (if an	y):				
		y):				
Please list all inc	ompatibilities (if an					
Please list all inc						
Please list all inconstruction S: General Construction	ompatibilities (if an enerator's Knowled ysis of the hazardou		ted below, WAS NOT	PERFORMI	ED based upo	n the followin
Please list all inco	ompatibilities (if an enerator's Knowled ysis of the hazardou	ge Documentation	ted below, WAS NOT	PERFORMI	ED based upo	n the following
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Please list all incomments SECTION 8: Get Laboratory analytemerator knowled FCLP Metals: FCLP Volatiles: FCLP Semi-Volation Reactivity: Corrosivity: Ignitability:	ompatibilities (if any enerator's Knowled ysis of the hazardou edge:	ge Documentation Is waste characteristics, list	ted below, WAS NOT	PERFORMI	ED based upo	n the followin
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Please list all inconstruction 8: Getalon 8:	enerator's Knowleds ysis of the hazardous edge: citiles: contained herein is be on is complete and	ge Documentation Is waste characteristics, list tion ased on generator knowledge accurate to the best of my	ledge and/or []] analyti knowledge and abilit	cal data. I he y to determir	ereby certify the that no del	hat the above s iberate or will
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Please list all income process of come process	enerator's Knowleds enerator's Knowleds ysis of the hazardou edge: enerator's Certificate contained herein is be on is complete and position properties e intative of all material enture: the:	tion ased on generator knowledges and that all known or a securate to the best of my exist and the security and the s	ledge and/or [] analyti knowledge and abilit suspected hazards have	cal data. I he y to determir been disclos	ereby certify the that no deluced. I certify	hat the above s iberate or will

Approval Number: 3350

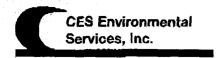
<u> </u>	SECTION 10: Waste Receipt Classification Under 40 CFR 437
Į	s this material a wastewater or wastewater sludge? YES NO
Ţ	f "Yes", complete this section.
1	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Me	etals Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
\sqsubseteq	Spent anodizing solutions
_	Incineration wastewaters
╝	Waste liquid mercury
ᆜ	Cyanide-containing wastes greater than 136 mg/l
ᆜ	Waste acids and bases with or without metals
ᆜ	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
ᆗ	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
<u>Dil</u>	's Subcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
ᆜ	Bilge water
ᆜ	Rinse/wash waters from petroleum sources
╛	Interceptor wastes
ᆜ	Off-specification fuels
닉	Underground storage remediation waste
닉	Tank clean-out from petroleum or oily sources
닉	Non-contact used glycols
닉	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
)r	ganics Subcategory: Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
Ī	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
7	Tank alagn out from arganic non natralgum courses

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.				
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.				
	Cadmi	um: 0.2 mg/L				
	Chrom	Chromium: 8.9 mg/L				
		Copper: 4.9 mg/L				
	Nickel:	37.5 mg/L				
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.				
		Metals Subcategory				
		Oils Subcategory				

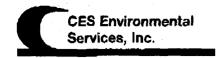
SECTION 11: Additional Instructions

Organics Subcategory

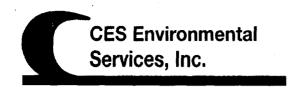
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	840/drun
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Class 1 landfill
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/23/2009

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3391

Expiration Date 6/23/2011

Generator: Drillmec Inc.
Address: 162 Woolridge

Conroe, TX 77301

Waste Information

Name of Waste: Unused oil and Debris

TCEQ Waste Code #: CESQ4091

Container Type:

Detailed Description of Process Generating Waste:

cleaning unused oilout of hoses, combined in drums with PPE

Color: dark

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

Howston

SECTION 1: Generator Information Company: Address: LIZ WOOD PLOOC City, State, Zip: Contact: Phone No: 934. Sec. 7071 Fax No: 934. 441. 1011 U.S. EPA I.D. No: State I.D. SIC Code:
SECTION 2: Billing Information — Same as Above Company: Address: THO HONGA EQUAL City, State, Zip: MONTHAMMEN TX TT 316 Contact: Phone No: Q26.483.3667 officeFax No: Q26.483.3667 cell
SECTION 3: General Description of the Waste Name of Waste: Unused oil & Debris Detailed Description of Process Generating Waste: cleaning unused oil out of houses, combined in druws with PPE Physical State: Liquid Sludge Powder
Color: Specific Gravity (water=1): Density: lbs/gal
Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds? Yes No
Layers: NA 🗆 Single-phase 🗀 Multi-phase
Container Type: Drum
Frequency:
Proper U.S. DOT Shipping Name: UN/NA: Name of the proper U.S. DOT Shipping Name of the proper U.S. DOT Shipping Name of U.S. DOT Shipping Name of U.S. DOT Shipping Name of U.S. DOT Shipping Name of U.S. DOT Sh

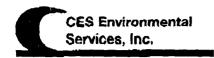
Flag Point	p p	Reactive Sulfides	Reactive Cyanid	es Solid	5%
Oil&Grease mg/l	TOCmg/l	Zinc mg/l	Copper mg/l	Nickelmg/l	
		AM E/ 1	mg/1	mg/i	
SECTION 4: Ph	vsical and Chemical	<u>Data</u>			
T	COMPONE	NES TABLE the following materials		centration are acceptable	Units or %
Mastic	,- ,	W- VA-14 8		-100	20
dir			0-	10	20
PPE	1.		90	0-100	70
oilyne	<u>, 797.</u>			25	%
ECTION 5: Sal	ety Related Data				
f the handling of	this waste requires	the use of special protective	e equipment, please exp	lain.	
					
ECTION 6: Att	ached Supporting D	ocuments			
ist all document	s, notes, data, and/o	r analysis attached to this f	orm as part of the wast	approval packs	ige.
ECTION 7: Inc	ompatibilities				
Please list all inco	mpatibilities (if any) :			
					
SECTION 8: Ge	nerator's Knowledg	e Documentation			
ahoratory analy	sis of the hazardous	waste characteristics, liste	d below. WAS NOT PE	RFORMED has	ed upon the following
generator knowle					en above rive lostomatike
TCLP Metals:					•
TCLP Volatiles:					
CLP Semi-Vola Reactivity:	tiles:				
Corrosivity:					
lgnitability:					
SECTION 9: Ge	nerator's Certificati	<u>on</u>			
The information c	ontained herein is bas	sed on 🔲 generator knowled	dge and/or [] analytical	data. I hereby ce	ertify that the above an
attached description	on is complete and a	ccurate to the best of my l	knowledge and ability to	determine that	no deliberate or willfu
		ist and that all known or su described by this document.		en disclosed. I c	ertity that the material
•				1/22/	
Authorized Signa	ture:	10-1	Da	te: 6/22/0	² ን
rinted Name/Tit	le: [[Lu	Myland			
ES USE ONLY (DO	NOT WRITE IN THIS	SPACE)		·····	
Compliance Office	\bigcirc ,	Othra			
	77	100			
Date:	7-04 A	pproved Rejected			
	200				
Approval Number:	>				

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
İs	this material a wastewater or wastewater sludge? YES NO
If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	els Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Orga	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank alam aut from organic and product operations

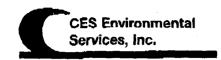
(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excesvalues listed below, the waste should be classified in the metals subcategory.
	Cadm	ium: 0.2 mg/L
	Chron	nium: 8.9 mg/L
	Coppe	er: 4.9 mg/L
	Nicke	1: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, of above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	#40
2.	Contamination Limits (maximum limit before surcharges apply):
!	
!	
3.	Surcharge Pricing:
4 .	Special Testing Requirements:
5.	Treatment and Wandling Protocol.
3. 	Treatment and Handling Protocol:
	Class I land fill
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	•
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable);

PA 3369 Eagle Eonstantion



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/15/2009

Dear Michael Romeo

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3369

Expiration Date 6/12/2011

Producer: Eagle Construction & Environmental Services

Address: 1700 North 6 Street

La Porte, TX 77571

Material / Product Information

Name of Material / Product Sodium hydroxide solution

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused sodium hydroxide solution

Color: water white Odor: none **pH:** >12

Physical State:

Incompatibilities: acids, oxidizing agents Safety Related Data/Special Handling:

Chem suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

☐ CES Environmental Services – Port Arthur Facility

2420 S. Gulfway Drive, Port Arthur, TX 77641



☐ CES Environmental Services – Houston Facility

4904 Griggs Road, Houston, TX 77021

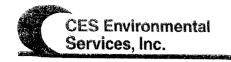
PACES 98/mm Product

SECTION														
	N 1: Mater			Inform	ation	10	1	4	, _					
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State I.D.				_					SIC Co	de:	PHARES			
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Contact:							Title:							
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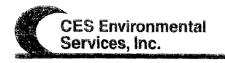
Characteristic for Toxic M			D007 D011	
Characteristics for Toxic	Organics: D012 thru D043	(please list all that apply)	Agency and by Engineers were received to the second of the	
Is this an "F" or "K" Liste	d waste or mixed with one	e? 🗌 Yes 🔽 No		
	ist ALL applicable codes:			THE COLUMN TWO IS NOT THE COLUMN TWO IS NOT
Is this a commercial prod 261.33(e) or (f)?	uct or spill cleanup that w	ould carry a "U" or "P" was	ite code under 40 CFR [Yes 🗸 No
If "Yes", then please I	ist ALL applicable codes:			
Texas State Waste Code	No: Product	:		
Proper U.S. State Waste	Code No :	Sodium	hydroxide solution	
Class: 8	UN/NA : UN18	24 PG:	II	RQ: 1000
Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
>140	>12	na mg/l	na mg/l	0 %
Oil and Grease	TOC	Zinc	Copper	Nickel
na mg/l	na mg/l	2.1 mg/l	5.87 mg/l	.55 mg/
SECTION 4: Physical and Ch	nomical Data			
	COMPONENTS VARIE			ion Units
THE CHARLES WAS A STREET, AND A STREET, WHEN THE STREET,	product consists of the f	Strategic by National Appropriate Strategic Control of the Control	Ranges are acc	ACT INVALABLE BLOOMS STOCKED CO. OF NO SHOWN BOWERING STOCKED
	sodium hydroxide		>25	%
	water		25- 75	%
OFFICIAL POLICE OF	3-4-			
SECTION 5: Safety Related I		necial protective equipme	ent nlease explain	
Chem suit, rubber gloves, i	· · · · · · · · · · · · · · · · · · ·	•	orig product explain.	
SECTION 6: Attached Suppo	orting Documents			
List all documents, notes	, data, and/or analysis at	tached to this form as pa	rt of the waste approval p	oackage.
none				
SECTION 7: Incompatibilitie	·			
Please list all incompatib				
acids, oxidizing agents				
SECTION 8: Generator's Kno	The second secon			
Laboratory analysis of the following generators known		acteristics, listed below, V	VAS NOT PERFORMED b	ased upon the
TCLP Metals :	x			
TCLP Volatilies :	<u>X</u>			
TCLP Semi-Volatiles :	<u>x</u>			
Reactivity:	X	•		
		2		

Corros	sivity: <u>x</u>
lgnitak	oility: <u>x</u>
SECTIO	ON 9: Waste Receipt Classification Under 40 CFR 437
	', complete this section
PLEAS	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
	Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils Si	ubcategory: Subpart B
	Used oils
$\overline{\Box}$	Oil-water emulsions or mixtures
	Lubricants
$\overline{\Box}$	Coolants
$\overline{\Box}$	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Orann	ing Subantagon, Subnart C
	<u>ics Subcategory</u> Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
, Constant	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste s	hould be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the meta	pollutants listed below in concentrations in als subcategory
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classified	concentrations of cadmium, chromium, copper, d in the organics subcategory.
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not fur Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commoncentrations. This will be prior to acceptance. The generator will be responsible SECTION 11: Generator's Certification	nercial laboratory a sample to determine these
The information contained herein is based on generator knowledge an above and attached description is complete and accurate to the best of my deliberate or willful omissions of composition properties exist and that all disclosed. I certify that the materials tested are representative of all materials Authorized Signature: Printed Name / Title:	knowledge and ability to determine that no known or suspected hazards have been
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Result 27/40 Date: 6-15-09 Status: Approved Rejected	
Approval Number: 3369	



1. Dase Pricing (including freight):
No cost/No pay FOB PACES.
· ·
2 Contouring time to the forestiment limits before a contract.
2. Contamination Limit (maximum limit before surchages apply): Must be water-white, free of solids, > 25% Caustic. No free-flooting
Must be water-white, free of solids, > 25% Caustic. No free-flooting
nis.
,
3. Surcharge Pricing:
3. Satchaige Fricing.
4. Special Testing Requirements:
% shall by sidration, color, clarity, pt
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: Use in fresh causic tank for Nast production
USE IN FROM COMMIC TONOR TO DOCTO
6. Treated Wastewater Discharge Subcategory:
or remaind transfer and transfe
Subcategory A Subcategory B Subcategory C



9574 CO. 300

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
See Section 4	
8. Management for Product Recovered/Recycled (if applicable)	
See Section 5'	

3375 Gullo Toyota



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Ron Kohler

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3375

Expiration Date 6/16/2011

Generator: Gullo Toyota **Address:** 500 I-45 South

Conroe, TX 77301

Waste Information

Name of Waste: Empty fuel tanks
TCEQ Waste Code #: Recycle

Container Type:

Tank

Detailed Description of Process Generating Waste:

Fuel tanks removed from vehicles (empty)

Color: brown/black

Odor: none

pH: NA

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. User

Monday, June 15, 2009 2:12 PM

Recycle Recycle

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information Company: Gullo To-wta	
Address: 500 Fys Shoth	
City, State, Zip: Convoc 1x. 77301	
Contact: Den Marcau Title: Service Druger	
Phone No: 281-350-4141 Fax No:	
24/hr Phone:	
U.S. EPA I.D. No: 450	
State LD. C2 SQ SIC Code: SSI	
State LU. C23 th Sic Cone. 33/1	
SECTION 2: Billing Information - Same as Above,	
Company: Select Environment	
Address: 223 MCCata DC	
	
Phone No: 713-635-7376 Fax No: 713-255-176/	
SPECIAL A CANADA SALAMANA	
SECTION 3: General Description of the Waste	_
Name of Waste: 244 & ful Tanks Detailed Description of Process Generating Waste: <u>Fuel tanks</u> renowed from valueles	(Empty)
	-
Physical State:	
🔀 Solid 🔲 Filter Cake 🔲 Combination	
Color: Brown/Black odor: none	
Specific Gravity (water=1): NA Density: NA lbs/gal	
Does this material contain any total phenolic compounds? Yes No	
Does this material contain any para substituted phenolic compounds? Yes	
Layers: Single-phase	
Container Type: Drum Tote Truck Other (explain) Container Size: Tote	
Frequency:	
NOVERTHANDOI REGULOSEE Masterial is	
Proper U.S. DOT Shipping Name: / Recurle	
Class: NA UN/NA: NA PG: NA RQ: NA	

t

Flash Point	pH (n	Reactive Sulfides	Reactive Cya		Solids
UA Oil&Grease	TOC	Zinc	AliA mg/l	Nickel	100 %
2//5/20mg/1	NA mg/1	NA me/l	Copper MA mg/l	NA m	g/l
SECTION 4: Phy	sical and Chemica	l Data			
		NTS TABLE		Concentration	Units
<u>Th</u>		the following materials	Ran	ges are accepta	
	Ful.	tentes outit		100	100/2
			-		
memone o a					
SECTION 5: Saf					
If the bandling of	this waste requires	the use of special protective	equipment, please	explain.	
<u> </u>					
SECTION 6: Att	ached Supporting I	<u>Documents</u>			
List all documentsNSN&_	i, notes, data, and/o	or analysis attached to this fo	orm as part of the w	aste approval	package.
ORCETON A L					
SECTION 7: Inc					
Please list all inco	mpatibilities (if any	y):			
SECTION 8: Ger	erator's Knowledg	e Documentation			
		s waste characteristics, liste	l below, WAS NOT	PERFORME	D based upon the follow
generator knowle	nge:				
TCLP Metals:	4				
TCLP Volatiles: TCLP Semi-Volat	iles:				
Reactivity:					
Corresivity:	<u> </u>				
Ignitability:					
SECTION 9: Ger	erator's Certificat	ion ,	•		
The information co	ntained herein is ba	ised on generator knowled	lge and/or 🗌 analyt	ical data. I her	eby certify that the above
		accurate to the best of my kexist and that all known or su			
		s described by this document.		L OCCII GISCIOSCI	a. I centry that the that
		•		- 11/1	5-05
Authorized Signal	ure: /)	77		Date: 6/	, %
Printed Name/Tit	le: her	laca			•
TEST SE ONLY (PA)	NOT WRITE IN THIS	SPACE			
`	Ω	D17 4			
Compliance Office	" Lalyland	101700			

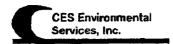
<u>Se</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
ls (his material a wastewater or wastewater sludge? YES NO
u.	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	<u>ls Subcategory</u> : Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils !	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Oil-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint wastes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(I)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L , and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0,2 mg/L nium: 8,9 mg/L n: 4,9 mg/L n: 37,5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

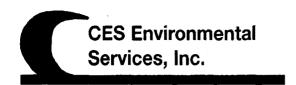


1.	Base Pricing (including freight):
	\$65 per tank
	·
2.	Contamination Limits (maximum limit before surcharges apply): Must be limpty
	must be empty
	Continue Deliver
3.	Surcharge Pricing:
	None
4.	Special Testing Requirements:
◄.	Cheek that each tank is RCRA empty
	Check that each tank is killed empty
_	Turney and Harrison Branch
5.	Treatment and Handling Protocol:
	Shired 9, send to Scrap Metal Bin
6,	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C

Unfiled Notes Page 5



7.	Tests for Product Recovered/Recycled (if applicable):
i	
8.	Management for Product Recovered/Recycled (if applicable):
ο.	Management for Fronter recovered the approximation



Waste Pre-Acceptance/Approval Letter

Date 6/15/2009

Dear Jimmy Watts

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3376

Expiration Date 6/15/2011

Generator: Ameriforge Woodville

Address: 483 CR 3020

Woodville, TX 75979

Waste Information

Name of Waste: Non hazardous graphite

TCEQ Waste Code #: 10016091

Container Type:

Detailed Description of Process Generating Waste:

Non hazardous graphite

Color: Black

Odor: None pH: 7-9

Physical State:

Incompatibilities: Strong oxidizers **Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





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CES Environmental Services - Houston Facility

DS

CES Environmental Services - Port Arthur Facility

U.S. EPA ID N	4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948							Pho	ne (713) 67	6-1460 Fa	x: (713) E	2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 8850						
SECTION 1: Company:			formatio Woodville															
Address:	483 CR	3020																
City:	Woody	ille				itate:	TX		Zip:					75979				
Contact:	Jimmy	Watt	5				_Title:		MAINT M	ANAGER								
Phone Num	ber:		409-283-	8138			_ Fax Nui	nber:	409-331-9	9089								
24/hr Phon	e Numb	er:					_											
US EPA ID N	ło:		TXD9880	41620														
State ID No	:					20154	SIC Cod	e:										
SECTION 2:	Billing i	nform	nation -		me as Ai	ove												
Company:	Amerif	orge '	Noodville															
Address:	PO Box	2070)															
City:	Woody	ille			s	itate:	TX		Zip:				-	77979				
Contact:	Jimmy '	Watt					Title:											
Phone Num	ber:		409-283-	8139			Fax Nur	nber:	409-331-9	9089								
											_			_				
Name of Wa	neto.		Non hara	edous es														
		. "£ n	Non haza		 _													
Detailed De	scriptio	i or P	rocess Ge	nerating	waste:													
Physical Sta	te:		Liquid Solid			ludge ilter Cake	1		Powder Combinat	lon								
Color:	black						Odor:		none									
Specific Gra	wito furs	tar-1	١.			1.18			Density:		8 lbs/ga	-1						
Shearing are	aith fasci	V21 T	j .		······································	1.40	-		Density.		o ins∖Re	31						
Does this m	aterial c	ontai	n any tota	ıl phenoli	c compo	ınds?		Yes	J	No								
Does this ma	aterial c	ontai	n any para	a substitu	ted phen	olic comp	oounds?			Yes 🖸] No							
Is the Waste	subject	to th	je benzeni	e waste o	peration	NESHAP?	140 CFR	Part 6:	1. Subpart	FF)	П	Yes	IJ	No				
Answer "Yes											าพโกล.		لت					
2812		2813		816	2819	2821		2822	2823		_	2833		2834				
2835		2836		841	2842	2843		2844	2851			2865		2869				
2873		2874		876	2879	2891		2892	2893			2899		2911				
3312		1953		959	9511	ZDJI		2022	2033	205	a a	2099		7311				
3255				232	27TT													
Layers:	Ø	Singi	e-phase	. 🗆	Multi-p	hase												
Container Ty	/pe:	Ø	Drum	☐ Tote	□ Ti	ruck 🗆	Other (e	xpiain)			·						
Frequency:	☐ We	ekly	☐ Mont	hiy 🗹 Y	Yearly	One-Ti	me											
Quantity:					5													

	Is this a USEPA "Hazardous Waste" per 40CFR 261.3? If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto										
If "Yes", Is Characterist	s it: tic for Toxic N] D001 (ignītab Metals:	ole)	_	□ D006	D003 (Read	•	□ D0D9			
Characterist	tic for Toxic C	Organics: D012	thru D043 (p	lease list al	l that apply)	_					
Is this an "F" or "K" Listed waste or mixed with one? If "Yes", then please list ALL applicable codes:											
40 CFR 261.	33(e) or (f)?	luct or spill cle st ALL applicab	☐ Y		a "U" or "P" w a No	ste code un	der	ng ang			
Texas State	Waste Code	Number:		100	16091		•				
=	OT Shipping				gulated Solids	20.	NA.		·		
Class:	NA	UN/NA:	NA	PG:	NA	RQ:	NA				
Flash	Point	pl	H	Reacti	ve Sulfides	Reactive	Cyanides	Sol	ids		
N	IA	7-	9	NA	<u>mg/l</u>	NA	mg/l	100	%		
Oil & (Grease	l TC)C		Zinc	Cor	per	Nic	kei		
NA	mg/l	NA	mg/l	NA	<u>mg/l</u>	NA	mg/l	NA	<u>mg/l</u>		
	Physical and	Chemical Data		NA	<u>mg/l</u>	NA	mg/l	NA			
SECTION 4:	Physical and	Chemical Data	BLE			NA CONCENT	mg/I	NA NA	UNITS		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA	mg/i RATOIN acceptable	NA NA			
SECTION 4:	Physical and CON waste consi	Chemical Data	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA	UNITS or %		
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA ists of the folio	BLE wing materia			NA CONCENT	mg/i RATOIN acceptable	NA NA	UNITS or %		

Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment			ted Data aste requires the	use of special p	rotective equip	oment, please e	xplain.	
Please list ALL incompatibilities (if any): SECTION 8: Generator's Knowledge Documentation Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge: TCLP Metals: TCLP Volotities: X TCLP Semi-Volatiles: X Reactivity: X Corrosivity: X Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment If Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subrategary: Subpart A Spent electroplating baths and/or sludges Astel finishing rinse water and sludges Chromate wastes Spent anodizing solutions Incheration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Canaling, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment DIES Subcotegory: Subpart B Used oils Oli-waster emulsions or mixtures Unbricants Coolants Contaminated groundwater clean-up from petroleum sources	List all docu	ments, notes	s, data and/or an	alysis attached		part of the was	te	
Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge: TCLP Metals: TCLP Volatiles:	Please list A	LL incompati						
TCLP Volatiles: X TCLP Semi-Volatiles: X Reactivity: X Corrosivity: X Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Is this material a wastewater or wastewater sludge? YES NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subport A Spent electropiating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, finsing, and surface preparation solutions from electropiating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Olis Subcategory: Subport B Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Coolants Coolants Coolants Contaminated groundwater clean-up from petroleum sources	Laboratory	analysis of th	e hazardous was	te characteristic	cs, listed below	, WAS NOT PER	IFORMED	
TCLP Volatiles: X TCLP Semi-Volatiles: X Reactivity: X Corrosivity: X Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Is this material a wastewater or wastewater sludge? YES NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subport A Spent electropiating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, finsing, and surface preparation solutions from electropiating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Olis Subcategory: Subport B Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Coolants Coolants Coolants Contaminated groundwater clean-up from petroleum sources				J				
TCLP Semi-Volatiles: X Reactivity: X Corrosivity: X Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities) Is this material a wastewater or wastewater sludge?			<u>v</u>	-		-		
Reactivity: X Corrosivity: X Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities) Is this material a wastewater or wastewater sludge?								
Corrosivity: X Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities) Is this material a wastewater or wastewater sludge?		· • · · · · · · · · · · · · · · · · · ·						
Ignitability: X SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment (Pre-Treatment Requirements) Is this material a wastewater or wastewater sludge?								
SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatm Facilities) Is this material a wastewater or wastewater sludge?								
Metals Subcategory: Subport A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subport B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources		Is this materia	al a wastewater o complete this secti	r wastewater slui on.	dge?		☐ YES	☑ NO
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Contaminated groundwater clean-up from petroleum sources		PLEASE CHEC	K THE APPROPRIA	ITE BOX. IF NO A	PPROPRIATE CA	TEGORY, GO TO	THE NEXT F	PAGE.
Oli spili clean-up	Olls Subcateg	Spent electro Metal finishin Chromate wa Air pollution o Spent anodizi Incineration v Waste liquid o Cyanide-conti Waste acids a Cleaning, rins Vibratory deb Alkaline and a Incineration Used oils Oil-water emu Lubricants Coolants Contaminated Used petroleu Oil spill clean-	plating baths and, ag rinse water and istes control blow down ling solutions wastewaters mercury alning wastes greated bases with orving, and surface pourring wastewates cid solutions used by the bath of the ba	sludges n water and sludges ster than 136 mg, without metals reparation soluti r i to clean metal p	/l ons from electro parts or equipme		hating oper	rations
☐ Bilge water ☐ Rinse/wash waters from petroleum sources			aters from petrol	eum sources				

	Interceptor wastes
	Off-specification fuels
-	Underground storage remediation waste
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
_	Aqueous and oil mixtures from parts cleaning operations
لسا	Wastewater from oil bearing paint washes
Oceanies Sub	eategory: Subpart C
	Landfill leachate
=	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
_	Off-specification organic product
	Still bottoms
=	Byproduct waste glycol
	Wastewater from paint washes
=	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
(1)	
	if the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	mener 37 to may a
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 A	dditional instructions
1E-1-11	Jahannian kha annan ani antanan in Canklan Candinan did na Eurale dan Eurakan annan ani a Eradust.
Copper, Nicke	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, I, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This acceptance. The generator will be responsible for the cost of the analysis.
	Generator's Certification
The Informat	ion contained herein is based on 💮 generator knowledge and/or 🖸 analytical data.
I hereby certi	ify that the above and attached description is complete and accurate to the best of
my knowledg	e and ability to determine that no deliberate or willful omissions of compostion
	ist and that all known or suspected hazards have been disclosed. I certify that the
	ted are representative of all materials described by this document.
macerians ces	The state of the s
a	
Authorized S	ignature: Date: VIII OI
	and all and and and and and and and and and and
Printed Name	e/Title: MATINT MANAGER
CES USE ONLY	Y (DO NOT WRITE IN THIS SPACE)
	1) 1, At A
Compliance C	Officer: / Must d/ by the
	- S - 09 Approved Rejected
Approval Nur	
Whinasi iagi	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Dase Fricing (including freight).
\$65.00/drum plus freight
2. Contamination Limit (maximum limit before surchages apply):
NA
2. Course putations
3. Surcharge Pricing: NA
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Put in class 1 solids box
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/R	tecycled (if applicable):	
NA		
8. Management for Product Reco	overed/Recycled (if applicable)	
NA		
:		

67/11/2006 23:55

9368253221

Laboratory Analysis Report

Total Number of Pages:

Job ID: 09050544



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name : 0509-46 Ameriforge Woodville

Report To:

Client Name:

CES Environmental

Attn:

Dana Carter

Client Address:

4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021

P.O.#.: 0509-46

Sample Collected By: Dana Carter

Date Collected: 05/26/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Graphite

Solid

09050544.01

Shautrul Caypente,

Released By: Shantall Carpenter

Title:

Project Manager

Date:

6/3/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/30/2009 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client

Date Received: 05/27/2009 12:31

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09050544

Date:

6/3/2009

General Term Definition

Back-Wt Back Weight BRL **Below Reporting Limit** cfu colony-forming units Conc. Concentration D.F. Dilution Factor

Front-Wt Front Weight LCS Laboratory Check Standard

LCSD Laboratory Check Standard Duplicate мѕ Matrix Spike

MSD Matrix Spike Duplicate

MW Molecular Weight Qualifier Definition

Post-Wt

RPD

SDL

TNTC

RptLimit

Post Weight parts per million ppm Pre-Wt Previous Weight Qualifier

RegLimit Regulatory Limit

Relative Percent Difference Reporting Limit

Sample Detection Limit

Surrogate surr Time Т

Too numerous to count

Page 2 of 7

LABORATORY TEST RESULTS

Job ID: 09050544

Date 6/3/2009

CES Environmental

Project Name: 0509-46 Ameriforge Woodville

Client Sample ID: Date Collected:

Client Name:

Graphite

05/26/09 14:00

Time Collected: Other Information: Job Sample ID:

09050544.01

Attn: Dana Carter

Sample Matrix

Solid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 6010C	TCLP Metals			_				
	Arsenic	BRL	mg/L	1	0.04	5.0	06/01/09 15:30	TK
	Barium	0.243	mg/L	1	0.04	100.0	06/01/09 15:30	TK
	Cadmium	BRL	mg/L	1	0.04	1.0	06/01/09 15:30	TK
	Chromium	BRL	mg/L	1	0.04	5.0	06/01/09 15:30	TK
	Lead	BRL	mg/L	1	0.04	5.0	06/01/09 15:30	TK
	Selenium	BRL	mg/L	1	0.1	1.0	06/01/09 15:30	TK
	Silver	BRL	mg/L	1	0.04	5.0	06/01/09 15:30	TK
SW-846 7470A	TCLP Metals, Mercury							
	Mercury	BRL.	mg/L	1	0.0005	0.2	05/29/09 12:50	SS

QUALITY CONTROL CERTIFICATE



Job ID: 09050544

Date:

6/3/2009

Analysis : TCLP Metals

SW-846 6010C

Reporting Units:

mg/L

QC Batch ID: Qb09052917

Created Date: 05/29/09

Created By: Tkhuc

Method:

Samples in This QC Batch:

09050544.01

Prep Method: SW-846 3010A

Prep Date: 05/29/09 10:00 Prep By:

Tkhuc

Digestion: TCLP Prep:

PB09052915 PB09052804

Prep Method: SW-846 1311

Prep Date: 05/27/09 17:00 **Prep By:**

Ksudha

QC Type: Method B	lank	<u></u>				
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L] 1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782-49-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type:	LCS and LCSI	D						<u> </u>			
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		2	2.11	106	2	2.09	105	1	20	80-120	
Barium		2	2.04	102	2	2.02	101	1	20	80-120	
Cadmium		2	2.01	101	2	1.99	99.5	1	20	80-120	
Chromium		2	1.97	98.5	2	1.95	97.5	1	20	80-120	
Lead		2	2.05	103	2	2.02	101	1.5	20	80-120	
Selenium		2	2.10	105	2	2.08	104	1	20	80-120	
Silver		2	2.00	100	2	1.99	99.5	0.5	20	80-120	

QC Type: MS and MS	D										
QC Sample ID: 0905	0570.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.09	105				,		45-138	
Barium	0.165	2	2.20	102						39-135	
Cadmium	BRL	2	2.01	101]		ļ			56-125]]
Chromium	BRL	2	1.96	98						52-125	
Lead	BRL	2	2.02	101			1			55-125	
Selenium	BRL	2	2.08	104	1		1			18-137	1 1
Silver	BRL	2	2.00	100	_					26-148	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID: 09050544

Date:

6/3/2009

Analysis : TCLP Metals, Mercury

Method: SW-846 7470A

Reporting Units: mg/L

QC Batch ID: Qb09052935

Created Date: 05/29/09

Created By: Ssrinivasan

Samples in This QC Batch: 09050544.01

PB09052929 Prep Method: SW-846 7470A

Prep Date: 05/29/09 08:10 **Prep By:**

Ssrinivasan

Digestion: **TCLP Prep:**

PB09052804

Prep Method: SW-846 1311

Prep Date: 05/27/09 17:00 **Prep By:**

Ksudha

QC Type:	Method	Blank
----------	--------	-------

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual	۱
Mercury	7439-97-6	BRL	mg/L	1	0.0005]

			_	
ററ	Type:	100	and	LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0047	94.6	0.005	0.0049	98.8	4.3	20	71-143	

QC Type: MS and MSD											
QC Sample ID:	09050570.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0050	99.8						61-175	

The Chain of Custody is a Legal Document

Page.

Chain of Custody

A & B Labs

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Sample Condition Checklist

Date: 06/03/09

A&B	JobID: 09050544	Date Received	: 05/	27/2009		Time I	Received:	12:31PM	Ī	
Clien	t Name : CES Environmenta	ol .								
Tem	perature : 5.7°C	Sample pH:	N/A							·
							<u> </u>			
		C	heck Po	oints					Yes	No
1.	Cooler seal present and signed.		_						N/A	
2.	Sample(s) in a cooler.									
3.	If yes, ice in cooler.								Х	
4.	Sample(s) received with chain-	of-custody.							х	
5.	C-O-C signed and dated.					•			Х	
6.	Sample(s) received with signed	sample custody se	al.						N/A	
7.	Sample containers arrived intac	t. (If no comment).							х	
8.	Matrix Water Soil	Liquid Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	
0.			<u> </u>							
9.	9. Sample(s) were received in appropriate container(s).								Х	
10.	10. Sample(s) were received with proper preservative							N/A		
11.	11. All samples were logged or labeled.							Х		
12.	2. Sample ID labels match C-O-C ID's								Х	
13.	3. Bottle count on C-O-C matches bottles found.							Х		
14.	14. Sample volume is sufficient for analyses requested.								X_	
15.	Samples were received within t	he hold time.							х	
16.	VOA vials completely filled.								N/A	
17.	Sample accepted.								Х	
Com	ments : Include actions taken to	resolve discrepanci	es/prob	lem:						
								_		
Rece	eived by: Mgonzalez			Check in	by/date:	Mgonzal	ez / 05/27/20	009		
 Phone	e: 713-453-6060						v	ww.ablabs	.com	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460

Fax. (713) 676-1460

pH: 5-10

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3377

Expiration Date 6/16/2011

Generator: National Oilwell Varco

4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recycable oil filters

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oil filters removed from rental generator units

Odor: None

Color: Varies **Physical State:**

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



DB/mn Recycle

CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXDD08950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948							CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585							3585
SECTION 1: Company:	Nation	al Oilv	vell Vard	o										
Address:	4310 N	Sam	Houston	Pkwy E.										
City:	Housto		······································			State:	TX		_Zip:					77032
Contact:	Tilden	Gaspa	rd			····· • • • • • • • • • • • • • • • • •	_Title:		Managen	nent				
Phone Num	ber:		713-482	2-0605			_ Fax Num	iber:	713-482-	0699				
24/hr Phon	e Numb	er:	936-827	7-3614			-							
US EPA ID N	io:		TXCESQ	G				***************************************					***************************************	*****
State ID No	:		CESQG		_SIC Code	: :								
SECTION 2: Company: Address:	Billing I	nforn	nation -	□ <u>s</u>	ame as A	Above		·····		***************************************	····			_
City:						State:			Zip:	~~~~				
Contact:					······································	•	Title:	***************************************	-					
Phone Num	ber:		***************************************			<u> </u>	- Fax Num	ıber:						
SECTION 3: Name of Wi Detailed De	aste:		Recycla	ble Oil Filt	ers								···	
Oil filters re	moved f	rom r	ental ge	nerator un	ilts			·/						***************************************
Physical Sta	te:		Liquid Solid			Sludge Filter Cake	1		Powder Combina	tion				
Color:	Varies						Odor:		None				<u></u>	***************************************
Specific Gra	vity (wa	ter=1):	1-1	.3				Density:	8.5-9	<u> </u>	s/gal		
Does this m	aterial c	ontai	n any to	tal pheno	lic comp	ounds?		Yes	V] No				
Does this m	aterial c	ontai	n anγ pa	ıra substit	uted pho	enolic comp	oounds?			Yes	V N	o		
Is the Waste Answer "Yes	-				•		•			-		Yes	v	No
2812		2813		2816	2819	2821		2822			2824	2833		2834
2835		2836	•	2841	2842	2843		2844			2861	2865		2869
2873		2874		2876	2879	2891		2892			2896	2899		2911
3312		4953		4959	9511									
Layers:			le-phase	_	_	-phase								
Container T	ype:	V	Drum	☐ Tot	e 🗌	Truck 🛂	Other (e	xplaiı	n)					
Frequency: Quantity:				-	Yearly	One-T	ime							

	Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes V No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto									
If "Yes", I Characteris	s it:	D001 (Ignitabl /Ietals:	e) D004 D010	<u> </u>	05 🔲 DC	☐ D003 (Re 106 ☐ D00	<u></u>	□ D009		
Characteris Na	tic for Toxic C	Organics: D012	thru D043 (please list	all that apply)				<u> </u>	
		d waste or mix at ALL applicabl		e?	NA NA	/es [5	☑ No	·		
40 CFR 261	.33(e) or (f)?	luct or spill clea	\		ya"U" or "P" ☑ No NA	waste code u	ınder			
Texas State	: Waste Code	Number:		Recyclab	ole					
Proper US I	OOT Shipping	Name:	Recyclable	Used oil f	iters					
Class:	NA	UN/NA:	NA	_PG:	NA	RQ:	NA			
Flash	n Point	рH		Rea	tive Sulfides	Reactiv	e Cyanides	Soli	ds	
>	160	5-1	0	0	mg/i	0	mg/l	98-100	%	
011 &	Grease	TO	C	Zinc		Co	Copper		cel	
Na	<u>mg/l</u>	Na	<u>mg/l</u>	0	mg/i	0	mg/l	_0	<u>mg/l</u>	

SECTION 4:	Physical	and	Chemical	Data
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CONCENTRATOIN	UNITS
Ranges are acceptable	or %
95-100	%
0-5	%
	Ranges are acceptable 95-100

SECTION 5: If the handlin Level D PPE			use of special pr	otective equip	ment, please e	xplain.			
	nents, notes	pporting Docur , data and/or ar None	nents naiysis attached t	o this form as p	part of the wast	te			
SECTION 7: Please list AL Oxidizers		ilities bilities (if any):							
Laboratory a	nalysis of th	Knowledge Doo e hazardous was g generator kno	ste characteristic	s, listed below,	WAS NOT PER	FORMED			
TCLP Metals:		Na							
TCLP Volatile		Na							
TCLP Semi-Vo		Na							
Reactivity:	•••••	Na							
Corrosivity:		Na			····	**************************************			
Ignitability:		Na							
-B-mesmey		110			····	-			
SECTION 9: W	aste Receipt	: Classification Un	der 40 CFR 437 (P	rtaining to Pre-T	reatment Regul	irements fo	r Centralized Waste Treatment		
Facilities)						V. d 			
	ls this materi	al a wastewater o	or wastewater slud	lge?		YEŞ	☑ NO		
	if 'Yes', o	complete this sect	tion.						
•	PLEASE CHEC	K THE APPROPRI	ATE BOX. IF NO A	PPROPRIATE CA	TEGORY, GO TO	THE NEXT	PAGE.		
Metals Subcat	tenory · Suhr	aart A							
		plating baths and	d/or sludges						
		ng rinse water and							
	Chromate wa								
	-		n water and sludg	es					
	Spent anodizi Incineration (•							
	Waste liquid								
			eater than 136 mg/	′ 1					
		and bases with or							
			preparation solution	ons from electro	plating or phosp	hating ope	rations		
	•	ourring wastewat							
، لـــا	Alkaline and a	acia solutions use	ed to clean metal p	arts or equipme	nt				
Olls Subcatego	orv : Subpart	t B							
	Used oils								
=	• • • • • • • • • • • • • • • • • • • •	ulsions or mixture	es						
	Lubricants								
	Coolants Contaminate	d aroundwater -l	ean-up from petro	loum courece					
		a groundwater co um products	canrup nom petro	icum sources					
	Oil spill clean	•							
	Bilge water	-							
		vaters from netro	feum sources						

☐ Interceptor wastes
Off-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources
Non-contact used glycols
 Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Wastewater from on bearing paint wasnes
Organics Subcategory : Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
U Off-specification organic product
☐ Still bottoms
Byproduct waste glycol Martewater from point washes
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources
(1)
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)
if the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional instructions
SCOTION SO MAINING MISS ACTIONS
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
The Information contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature: Lelden Saspard Date: 6/11/2009
Printed Name/Title: Tilden Gaspard
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Ω Ω
Compliance Officer: White Clare
Date: 15-09 32 Approved Rejected
Approval Nurkber: 1 03 + +
1



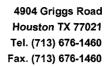
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

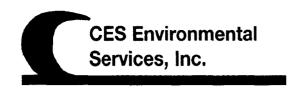
1.	Base Pricing (including freight):
	\$35/dm, \$85/cy
	\$275/load trans
ł	
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l	
2.	Contamination Limits (maximum limit before surcharges apply):
Г	_
	Non-Conforming to profile
- 1	
L	
3.	Surcharge Pricing:
<i>J</i> .	
J	Call sales rep (Dan Bowman 713-854-6150)
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L	
4.	Special Testing Requirements:
[None
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ĺ	
Ĺ	
5.	Treatment and Handling Protocol:
Γ	recycle to maxia box
	Tooyoto to makka ook
J	
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l	
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L	
6.	Treated Wastewater Discharge Subcategory:
٦,	The state of the s
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
ļ	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

/.	<u>Tests for Product Recovered/Recycled (if applicable):</u>
	NA NA
8.	Management for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); NA
8.	
8.	
8.	
8.	





Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3378

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recyclable Antifreeze

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Antifreeze removed from portable generators

Color: Green to Red

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services - Port Arthur Facility

DBI MM Recycle

CES Environmental Services, Inc.

v

CES Environmental Services - Houston Facility

				Fax: (713)					20 S. Guirw one (713) 67	-			
U.S. EPA ID N					Number: 309	900	U.S. FI		Number: TX			5) 676-1460 SWR Numb	
					umber: 3094		0,5.2		TOTAL TA		507	J 11 11 11 11 11 11 11 11 11 11 11 11 11	741.00000
							ــــــــــــــــــــــــــــــــــــــ				····		
SECTION 1:	Genera	tor ir	formati	on									
Company:	Nationa	al Oil	well Var	co									
Address:		Sam	Housto	n Pkwy E.				·	······································				
City:	Housto		······································		S	tate:	TX		Zip:				77032
Contact:	Tilden (ard				Title:	···	Managen	nent			
Phone Num			713-48	2-0605	·····			oher:	713-482-		~~		····
24/hr Phon		ar:	936-82						720 102			_	
US EPA ID N		•••	TXCESC		······		-						
State ID No			CESQG		·····		SIC Code		**************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
J. (10)	•		CLUCO				_ SIC COUR	.					
SECTION 2:	Rilling I	nforr	nation .	П	Same as Ab	ove							
Company:	District I	111011	<u>narion -</u>	; لسبا	<u> </u>	<u> </u>							
Address:	***************************************		······		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	······	· · · · · · · · · · · · · · · · · · ·		
City:			***************************************			tate:			Zip:				
Contact:			······································			tuto:	Title:		- 				
Phone Num	her		~,		***************************************		Fax Num	share					
r none nan	inc.				·····	······································	_ I WA IVW						
SECTION 3:	Ganaral	Doc	rrintion	of the Mis	eto								
SECTION 3.	General	Des	LIDUUIL	OI LITE AND	1316								
Name of Wa	25\$01		Pacycla	ble Antifr	0070								
Detailed De		a a f D							······································	·····			
Detailed De	scriptio	OIF	TOLESS (errer acing	S Wasie:								
Antifreeze r	amound	fram	nortabl	a ganarat	0 P D								
Millineeze i	CHIOVEU	HOIII	portaul	e generati	015				***************************************				·····
Physical Sta	to.	M	Liquid		[] ci	udge			Powder				
i irysicai sta		H	Solid			iter Cake			Combina	tian			
			Julia		ا السا	itei cake	1		Compina	CIOH			
Color:	Gren to	Rad					Odor:		None				
COIOI.	Grento	neu			·		Ouoi.		None				
Specific Gra	rder furs	tar-1	١.	1-:	1 2				Density:	8.5-9	lh	r lant	
specific dia	vity (wa	re: 1	· <i>j</i> ·	1	1.3		-		Delisity:	6.3-9	103	s/gal	
Dage this w	ataulal a						\Box	V	<u></u>	7 A.			
Does this m	ateria: c	onta	n any to	nai pileno	HE COMPOU	nasr	لــا	Yes	[·] No			
Done this w									<u></u>	Vaa	F-1 84	_	
Does this m	ateriai Ci	Dintai	п апу р	ara supsu	tuteo pnem	one comp	ounasr		<u> </u> J	Yes	V No	,	
ic tha Mact	n ruktos		a hans		anavatian	NECHANO	MO CED I	Dave 6	1 Cubport	· cr\	г	Yes	[7] No
is the Waste Answer "Yes											سا معتدد ما احدا		☑ No
			e coma										2024
2812		2813		2816	2819	2821		2822			2824	2833	2834
2835		2836		2841	2842	2843		2844			2861	2865	2869
2873		2874		2876	2879	2891		2892	289	3	2896	2899	2911
3312	4	1953		4959	9511								
				_									
Layers:	Ц	Sing	le-phase	· L	Multi-pl	nase							
a		L1		~ -	[""]	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 .						
Container T	ype:	Ц	Drum	□ То	te 🛂 Tr	uck	Other (e	xplair	1)				
			[7] - <i>-</i>		Manus F-								
Frequency:			Ľ Mo	ntniy 🛄	rearly [j One-Ti	me						
Quantity:	300-100)Ü		<u> </u>									

		ous Waste" per nplete, sign and			٠ رسيا	_	No tached hereto		
If "Yes", Character	, Is it:] D001 (Ignitab Metals :	le) [D00. D01.	4 □D0	()	□ D003 (Re 06 □ D00		D009	
Character Na	istic for Toxic (Organics: D012	thru D043	(please list	all that apply)				···
		ed waste or mix st ALL applicab		e?	NA Y	es [☑ No		
40 CFR 26	1.33(e) or (f)?	duct or spill cle st ALL applicab			y a "U" or "P" \ No NA	waste code (under		
Texas Stat	te Waste Code	Number:		Recyclat	ole	······································	_		
Proper US	DOT Shipping	Name:	Recyclable	Antifreez	e				
Class:	NA	_UN/NA:	NA	_PG:	NA	RQ:	NA		
Fla	sh Point	pl	1	Rea	ctive Sulfides	Reactiv	ve Cyanides	So	ids
	>160	5-1	.0	0	mg/l	0	mg/i	0-3	%
Oil	& Grease	то	C		Zinc	C	opper	Nic	kel
Na	<u>mg/l</u>	<30000	mg/l	0_	<u>mg/l</u>	0	mg/i	O	<u>mg/l</u>

SECTION 4:	Physical	and	Chemical	Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	50-60	%
Ethylene Glycol (Antifreeze)	40-50	%
	· · · · · · · · · · · · · · · · · · ·	
		
	<u></u>	

SECTION 5: Safety	Related Data		
If the handling of th	his waste requires the use of special protective equi	pment, please explain.	
Level D PPE	, , ,		
		······································	
			
	ed Supporting Documents		
	notes, data and/or analysis attached to this form as	part of the waste	
approval package.	None		
SECTION 7: Incomp	patibilities		
Please list ALL incom	npatibilities (if any):		
Oxidizers			· · · · · · · · · · · · · · · · · · ·
			
			······································
SECTION 8: Genera	itor's Knowledge Documentation		
Laboratory analysis	of the hazardous waste characteristics, listed below	v, WAS NOT PERFORMED	
	owing generator knowledge:	,	
bassa apon the following	annie Berierator mierrieuser		
TCLP Metals:	CES Lab will test		
TCLP Volatiles:	Na		
TCLP Semi-Volatiles:	: Na		
Reactivity:	Na		
Corrosivity:	Na		
Ignitability:	Na		
(Britanius)	110		
SECTION OF Warts Da	eceipt Classification Under 40 CFR 437 (Prtaining to Pre	Traatmant Regilirements f	or Centralized Waste Treatment
Facilities)	sector classification officer 40 to 11 405 (1 teathing to 11c	The Control of the Co	
	naterial a wastewater or wastewater sludge?	✓ YES	□ NO
	Yes', complete this section.	<u> </u>	
	·		
PLEASE	CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE C	ATEGORY, GO TO THE NEXT	PAGE.
Metals Subcategory:	: Subpart A		
	electroplating baths and/or sludges		
	Inishing rinse water and sludges		
	ate wastes		
-	ution control blow down water and sludges		
******	nodizing solutions ation wastewaters		
	liquid mercury		
	e-containing wastes greater than 136 mg/l		
	acids and bases with or without metals		
Cleaning	g, rinsing, and surface preparation solutions from electi	roplating or phosphating op	erations
☐ Vibrato	ry deburring wastewater		
Alkaline	e and acid solutions used to clean metal parts or equipm	ent	
Olis Subcategory : Su	ihnert R		
Used oil			
	er emulsions or mixtures		
Lubrica:	nts		
✓ Coolant			
	ninated groundwater clean-up from petroleum sources		
	etroleum products		
	clean-up		
Bilge wa	ater vash waters from petroleum sources		
∟ nnse/w	vasir waters ironi hen olenni sonices		

	Interceptor wastes		
	Off-specification fuels		
	Underground storage remediation waste		
	Tank clean-out from petroleum or oily sources		
	Non-contact used glycols		
	Aqueous and oil mixtures from parts cleaning operations		
	☐ Wastewater from oil bearing paint washes		
<u>Organics S</u>	s Subcategory : Subpart C		
	Landfill leachate		
	☐ Contaminated groundwater clean-up from non-petroleum sources ☐ Solvent-bearing wastes		
	Off-specification organic product		
	Still bottoms		
	Byproduct waste glycol		
	Wastewater from paint washes		
	☐ Wastewater from adhesives and/or epoxies formulation		
	Wastewater from organic chemical product operations		
	Tank clean-out from organic, non-petroleum sources		
/11			
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be	classified in the oils subcateg	gory.
(2)			
,-,	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutant	s listed below in concentration	ns in
	excess of the values listed below, the waste should be classified in the metals subca	tegory.	
	Cadmium: 0.2 mg/L		
	Chromium: 8.9 mg/L		
	Copper: 4.9 mg/L		
	Nickel: 37.5 mg/L		
	Mickell 37.5 mg/L		
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentr or nickel above any of the values listed above, the waste should be classified in the Metals Subcategory Oils Subcategory Organics Subcategory		n, copper,
SECTION 1	10 Additional Instructions		
Copper, Ni	nnot determine the correct subcategory in Section 9 and you did not furnish data for the Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to durior to acceptance. The generator will be responsible for the cost of the analysis.		
SECTION 1	N 11: Generator's Certification		
	ormation contained herein is based on	analytical data.	
	y certify that the above and attached description is complete and accurate to the b	-	
-	wledge and ability to determine that no deliberate or willful omissions of compost		
-	- · · · · · · · · · · · · · · · · · · ·		
	ies exist and that all known or suspected hazards have been disclosed. I certify tha	tine	
materials	Is tested are representative of all materials described by this document		
	Jan landard	.	(44 (222
Authorize	zed Signature: Stally Sangard		/11/2009
D	Alama frilata		
Printed Na	Name/Title: Tilden Gaspard		
CES USE O	ONLY (DO NOT WRITE IN THIS SPACE)		
Compliand	ince Officer: Yourself of		
Date:	6-15-091 Approved Rejected		
Approval f	al Number: 33+8		



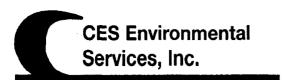
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.25/gal bulk, \$150/tote (include the tote exchange) \$275/load trans
2.	Contamination Limits (maximum limit before surcharges apply):
[Non-Conforming to profile
3.	Surcharge Pricing:
	Call sales rep (Dan Bowman 713-854-6150)
l	
4.	Special Testing Requirements:
	% Glycol
[
5.	Treatment and Handling Protocol:
	Sell with other glycols-should be at least 50%
Į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	1ests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	
8.	Management for Product Recovered/Recycled (if applicable): NA
8.	
8.	
8.	
8.	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/17/2009

Dear Kate Alexander

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3379

Expiration Date 6/17/2011

Producer: Arkema, Inc - Crosby

Address: 18000 Crosby Eastgate Road

Crosby, TX 77532

Material / Product Information

Name of Material / Product Spent sulfuric acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Spent sulfuric acid used in the catalysis reaction for organic peroxide production

Color: amber

Odor: characteristic

pH: 0-1

Physical State:

Incompatibilities: Avoid contact with carbides, chlorates, nitrates, powdered metals

and other hazardous combustible materials

Safety Related Data/Special Handling:

See MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



ADIMM PRODUT

CES Environmental Services – Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 ICEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 SECTION 1: Material Froducer Information			 ⊠ CES Environmental Services – Port Arthur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585 				
SECTION 1: Mate	rial Producer Info	ermation					
Company:	Arkema						
Address:	18000 Crosby E						
City, State, Zip:	Crosby, TX 775						
Contact:	Kate Alexander		Title:		mental Engineer		
Phone No: 24/hr Phone:	281-328-9430		Fax No:	281-328	-9465		
U.S. EPA I.D. No:	830-556-1636 TXD043750512	<u> </u>					
State I.D.	30458		SIC Code:				
SECTION 2: Billin Company:	<u>u Information — 🖸</u>	Same as Above					
Address:							
City, State, Zip:					·		
Contact:		Title					
Phone No:		Fax !	No:				
		the Material / Product					
Name of Material / Detailed Description reaction for organic p Physical State:	n of Process Gener	rating or Producing the	Material / Product: Powder Combination		uric acid used in the catalysis		
Detailed Description reaction for organic p	n of Process Generoside production Liquid	rating or Producing the Sludge	☐ Powder		uric acid used in the catalysis		
Detailed Description reaction for organic p Physical State:	n of Process Generoside production Liquid Solid	Tating or Producing the Sludge Filter Cake	☐ Powder ☐ Combinatio		uric acid used in the catalysis		
Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (was	n of Process Generated production Liquid Solid Solid	rating or Producing the Sludge Filter Cake Odor: characteristic	☐ Powder ☐ Combinatio		uric acid used in the catalysis		
Detailed Description reaction for organic purpose process of the second state: Color: amber Specific Gravity (we book this material colors this material colors and the second state of	n of Process Generated production Liquid Solid Solid ater=1): 1.3-1.4	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7	☐ Powder ☐ Combination		uric acid used in the catalysis		
Detailed Description reaction for organic purpose process of the second state: Color: amber Specific Gravity (we done this material colors this material colors are second states)	n of Process Generated production Liquid Solid Solid ater=1): 1.3-1.4	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7 henolic compounds?	☐ Powder ☐ Combination Yes ☑ No pounds? ☐ Yes [on	uric acid used in the catalysis		
Detailed Description reaction for organic peaction for organic peaction for organic peaction for organic peaction for organic peaction for organic peaction for amber and control of the peaction for organic peaction for	n of Process Generated production Liquid Solid ster=1): 1.3-1.4 contain any total p	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7 henolic compounds?	☐ Powder ☐ Combination Yes ☑ No pounds? ☐ Yes [on	uric acid used in the catalysis Other (explain)		
Detailed Description reaction for organic pr	n of Process Generated production Liquid Solid ater=1): 1.3-1.4 contain any total production Single-phase	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7 henolic compounds? ubstituted phenolic com	☐ Powder ☐ Combination Yes ☑ No pounds? ☐ Yes ☐ ase ☑ Truck	on			
Detailed Description reaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for amber and container type: Container Type: Container Size:	n of Process Generated production Liquid Solid ater=1): 1.3-1.4 contain any total production any parase Single-phase	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7 henolic compounds? ubstituted phenolic com Multi-pha	☐ Powder ☐ Combination Yes ☒ No pounds? ☐ Yes ☐ ase ☒ Truck <u>5000 gal</u>	on	Other (explain)		
Detailed Description reaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for amber and container type: Container Type: Container Size:	n of Process Generated Process Generated Production Liquid Solid Solid Ater=1): 1.3-1.4 Contain any total prontain any parass Single-phase Drum Weekly	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7 henolic compounds? ubstituted phenolic compounds Multi-pha Tote Monthly	☐ Powder ☐ Combination Yes ☑ No pounds? ☐ Yes ☐ ase ☑ Truck <u>5000 gal</u> ☐ Quarterly	on	Other (explain)		
Detailed Description reaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preaction for organic preactions. Color: amber Specific Gravity (we be be be be be be be be be be be be be	n of Process Generated Process Generated Production Liquid Solid Solid Ater=1): 1.3-1.4 Pontain any total prontain any parase Single-phase Drum Weekly hipping Name:	Sludge Sludge Filter Cake Odor: characteristic Density: 10.8-11.7 henolic compounds? ubstituted phenolic com Multi-phe Tote Monthly Product	☐ Powder ☐ Combination Yes ☑ No pounds? ☐ Yes ☐ ase ☑ Truck <u>5000 gal</u> ☐ Quarterly	on	Other (explain)		

Flash Point	рH	N/A	N/A	Solids
>73 deg F	0-1			%
Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	30-80,000mg/l	0-2mg/l	<u>0-2</u> mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid	45-58	%
Water	20-40	%
Isobutylene ·	1-3	%
t-Butyl alcohol or t-amyl alcohol	5-7	%
Isobutylene or Isoamylene	1-3	%
see additional components table attached		

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. see msds

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. msds, analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

avoid contact with carbides, chlorates, nitrates, powdered metals and other hazardous combustible materials

SECTION 8: Material Producer's Certification

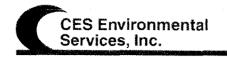
The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Date:

Printed Name/Title: KATC. HILXANDLY, E	principal Engineer
Technical Manager: Approved Rejected	
Approval Number: 3379	

ADDITIONAL COMPONENTS TABLE (continued from profile)	Concentration	Units
The material / product consists of the following additional components	Ranges are acceptable	or %
di-t-butyl hydroperoxide or di-t-amyl hydroperoxide	0-1	%
t-butyl hydroperoxide or t-amyl hydroperoxide	0-1	%
Acetone	0-1 *	%
Sulfur Dioxide	0-1	%



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Charge \$0.20/gal FOB PACES
2. Contamination Limit (maximum limit before surchages apply):
Must meet product spent sulfuric acid specifications as mobilined in Section 7.
3. Surcharge Pricing:
Any deviation from product specification require prior approval and pricing before acceptance at facility.
4. Special Testing Requirements:
See Section 7
5. Treatment and Handling Protocol:
See Section 8
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C N



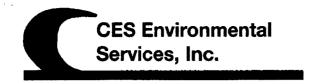
PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

Measure % sulfuric acid by S.g.
1/3 nal inspection for solids, color, clarity, o dor. Must breet
product Spent acid specifications as seen on attached table.

8. Management for Product Recovered/Recycled (if applicable)

Unload to contric reid feedstock tank for use in Nash production.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker Date: 11/05/08

Cc: Matt Bowman, Gary Peterson, Prabhaker,

Matt Moser, Joe Camp, Bo Cumberland, Chris Saylor

Brian Weathers

From: Miles Root Lab Memo: 08-193

Subject: Arkema, Crosby Evaluation 1108-13

A sample of sulfuric acid from Arkema, Crosby has been evaluated for use at CES Port Arthur. This sample is evaluation 1108-13. Overall, this acid looks okay for use in our acidification process.

The density of this sample is 1.357, which equates to an approximate concentration of 46% sulfuric acid. This sulfuric acid may contain a few alcohols and peroxides, as it comes from an organic peroxide production operation. This only adds to the TOC value and will not affect its usefulness to CES.

This sample is medium amber in appearance and contains no layers, solids or sludge. The TOC on this sample is 67,350. Metals are acceptable. A reaction with caustic shows a typical acid base reaction with no abnormalities.

Remember that this acid will be used in a reaction vessel that typically uses around 91% acid strength. Doubling the amount typically used will be needed to produce the same results. Operations wise, a little less feed to accommodate the extra space will be needed. The high TOC, if it is an issue, will be diluted down by at least a factor of 10 in a typical acidification process at CES Port Arthur. I don't see anything chemically wise that would prevent us from using this source.

The table below summarizes the analytical testing.

Arkema Crosby	
Evaluation 1108-13	
Density	1.357
%Sulfuric Acid, by density	46
Solids, vol%	0
TOC, mg/L	67,350
Oil, vol%	0
Caustic Reaction	ок
Metals, ppm	₹ 1 1
Ni	1.062
Zn	1.047
Cu	0.157
Cd	0.000
Cr	0.000



Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Functional Additives

2000 Market Street

21st Floor

Philadelphia, PA 19103-3222

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Information Telephone Numbers

Phone Number

Available Hrs

Customer Service Number

(800) 331-7654

8:00 AM - 5:00 PM EST

Product Name

SPENT SULFURIC ACID

Product Synonym(s)

Chemical Family

Acid

Chemical Formula

H2SO4

Chemical Name

Sulfuric Acid Solution

EPA Reg Num

Product Use

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Sulfuric acid	7664-93-9	45-58% By Wt.	Y
> Isobutylene should be 1-3%	115-11-7	20-31%)By Wt.	Υ
Water	7732-18-5	15-25% By Wt.	Y
t-Butyl alcohol	75-65-0	5-7% By Wt.	Υ
2-Methyl-2-butanol	75-85-4	5-7% By Wt.	Υ
tert-Butyl hydroperoxide	75-91-2	< 1% By Wt.	Υ
Di-tert-butyl peroxide	110-05-4	< 1% By Wt.	Υ
Acetone	67-64-1	< 1% By Wt.	Υ

The Substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The Components of this product are either on the TSCA Inventory list or exempt as impurities.

3 HAZARDS IDENTIFICATION

Emergency Overview

Brown liquid, strong odor

DANGER!

CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE BLINDNESS.

CAUSES DIGESTIVE TRACT BURNS.

FLAMMABLE LIQUID AND VAPOR.

CONTAINS SULFURIC ACID:

CANCER HAZARD. INHALATION OF MISTS CAN CAUSE CANCER

Risk of cancer depends on duration and level of exposure

CAN CAUSE LUNG INJURY

Product Code: 999008 Revision: 3 Issued: 02 JAN 2007 Page 1 of 8

ARKEMA

SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

Flash Point Method

Potential Health Effects

4 FIRST AID MEASURES

IN CASE OF CONTACT, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature

NE

Flash Point

>73 F

per NE

Flammable Limits- Upper Lower

NE

Extinguishing Media

Use water spray or other suitable agent for fires adjacent to non-leaking tanks or other containers of sulfuric acid. Avoid spraying water into containers. If only a small amount of combustibles is present, smother fire with dry chemical.

Fire Fighting Instructions

Do NOT use a solid stream of water. A solid stream of water can spread fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Forms hydrogen chloride when contacted with water.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Small spills; soak up with an inert absorbent. Scoop up and place in a clean, dry container. Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials.

Large spills: Pump into marked containers for disposal or reclamation. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

Product Code: 999008 Revision: 3 Issued: 02 JAN 2007 Page 2 of 8



Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe vapor.
Do not taste or swallow.
Keep away from heat, sparks and flames.
Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

CONTAINER HAZARDOUS WHEN EMPTY. Emptied container retains vapor and product residue. Follow labeled warnings even after container is emptied. RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DO NOT CUT, DRILL GRIND OR WELD ON OR NEAR THIS CONTAINER. Improper disposal or reuse of this container may be dangerous and/or illegal.

Storage

Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place. Do NOT store near strong bases.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Other Protective Equipment

Rubber boots, Apron and Chemical resistant protective clothing.

Airborne Exposure Guidelines for Ingredients

Product Code: 999008 Revision: 3 Issued:02 JAN 2007 Page 3 of 8



Material Safety Data Sheet

Arkema Inc.

Exposure Limit		Value
Acetone		
ACGIH STEL	-	750 ppm (1782 mg/m3)
ACGIH TWA	-	500 ppm (1188 mg/m3)
OSHA TWA PEL	-	1000 ppm (2400 mg/m3)
Sulfuric acid		
ACGIH TWA	-	0.2 mg/m3
OSHA TWA PEL	-	1 mg/m3
t-Butyl alcohol		
ACGIH TWA	-	100 ppm
OSHA TWA PEL	-	100 ppm (300 mg/m3)
-Only those components with exp	oosure limits are printed in this section.	

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Brown liquid, strong odor
pН	NE
Specific Gravity	1.33
Vapor Pressure	NE
Vapor Density	NE
Melting Point	NE
Freezing Point	NE
Boiling Point	NE
Solubility In Water	NE

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Does not occur.

Incompatibility

Avoid contact with many materials, particularly carbides, chlorates, nitrates, powdered metals and other combustible materials. May release flammable hydrogen gas.

Hazardous Decomposition Products

Forms hydrogen chloride gas when contacted with water.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Product Code: 999008 Page 4 Revision: 3 Issued: 02 JAN 2007 of 8

⁻Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

⁻ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

⁻WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



Material Safety Data Sheet

Arkema Inc.

11 TOXICOLOGICAL INFORMATION

Sulfuric Acid

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 2,140 mg/kg), moderately toxic if inhaled (rat 4-hr LC50 0.5 mg/l) and corrosive to rabbit eyes and skin.

Studies in humans show that this material is irritating to the upper respiratory tract and lungs with coughing, sore throat, chest pain and reduced pulmonary function in asthmatic subjects. No birth defects were noted in the offspring of mice or rabbits exposed by inhalation during pregnancy. The International Agency for Research on Cancer (IARC) has classified strong inorganic acid mists containing sulfuric acid as a known human carcinogen (Group 1). Genetic changes were observed in tests using animal cells, but not in bacteria. Both positive and negative responses have been reported in tests using yeast.

t-Butyl alcohol

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 3,500 mg/kg), practically non-toxic if inhaled (rat 7-hr LC50 >15 to <30 mg/l) and non-irritating to rabbit skin.

This material is non-sensitizing and non-irritating to human skin, but is severely irritating to the eyes. Ingestion or inhalation of large amounts can result in narcosis and central nervous system depression, possibly leading to death. Repeated inhalation and oral exposures produced effects similar to those seen in long-term studies using rats and mice. Following long-term exposure in the drinking water, no notable tumor increases were found in rats and mice, other than a slight increase in kidney tumors seen in male rats. The significance of this finding is uncertain since hydrocarbon nephropathy and an increase in kidney tumors have been shown to result from a mechanism unique to male rats. Rats showed effects on the liver, kidney and urinary bladders, while mice showed proliferative changes in the thyroid. Oral administration or inhalation exposure of pregnant rats resulted in no significant reproductive or teratogenic effects even at doses that caused maternal toxicity. No teratogenic or fetotoxic effects were seen in pregnant mice exposed to high oral doses. No genetic changes were observed in tests using bacteria, animal cells or animals.

2-Methyl-2-butanol

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 1,000 mg/kg) or absorbed through skin (rabbit LD50 1,720 mg/kg), practically non-toxic if inhaled (rat 6-hr LC50 >3,000 ppm), non-irritating to rabbit skin (non-occluded) and severely irritating to rabbit eyes.

No skin allergy was observed in guinea pigs following repeated exposure. Following repeated inhalation exposure in rats, mice and dogs, no treatment related effects were seen in mice. Excessive tearing and signs of central nervous system (CNS) depression were noted in both rats and dogs. Liver effects were noted in male rats and dogs. No genetic changes were observed in tests using bacteria, yeast, animal cells or human cells.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Sulfuric Acid

This material is slightly toxic to mosquito fish and bluegill sunfish (LC50 42-49 mg/l), shrimp (LC50 60-90 mg/l), zebra fish (24-hr LC50 82 mg/l) and Daphnia magna (24-hr EC50 29 mg/l). It is practically non-toxic to flounder (LC50 100-330 mg/l).

Product Code: 999008 Revision: 3 Issued:02 JAN 2007 Page 5 of 8



Material Safety Data Sheet

Arkema Inc.

12 ECOLOGICAL INFORMATION

t-Butyl alcohol

This material is generally non-toxic to aquatic organisms. Acute LC50 values for freshwater fish range from 3,000-6,400 mg/l, while acute values for invertebrates are greater than 5,000 mg/l. The EC50 value for green algae is 24,000 mg/l.

2-Methyl-2-butanol

This material is practically non-toxic to Daphnia magna (24-hr LC50 4,030 mg/l). The toxicity threshold was determined to be 410 mg/l for bacteria and 1,250 mg/l for green algae.

Chemical Fate Information

Data on this material and/or its components are summarized below.

t-Butyl alcohol

Based on its volatility and water solubility, this material is expected to disperse rapidly in the environment. In addition, it is likely to be moderately susceptible to biodegradation. It is not expected to bioaccumulate or bioconcentrate.

2-Methyl-2-butanol

This material is readily biodegradable (>70% biodegradable - Zahn-Wellens).

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name

Sulfuric acid, spent

DOT Technical Name

DOT Hazard Class

8

UN Number

UN 1832

DOT Packing Group

PG II

RQ

Sulfuric acid = 1000 lbs.

DOT Special Information

Add subsidiary flammable label

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y

Fire

Υ

Delayed (Chronic) Health Y

Reactive

Ν

Sudden Release of Pressure N

The components of this product are either on the TSCA Inventory list or exempt as impurities.

Ingredient Related Regulatory Information:

Product Code: 999008

Revision: 3

Issued: 02 JAN 2007

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Material Safety Data Sheet

Arkema Inc.

SARA Reportable Quantities	CERCLA RQ	SARA TPQ	
Acetone	5000 LBS		
Sulfuric acid	1000 LBS	1000 LBS	
Water	NE		
Di-tert-butyl peroxide	NE	NE	
t-Butyl alcohol	NE	NE	
2-Methyl-2-butanol	100 LBS		
tert-Butyl hydroperoxide	NE	NE	
Isobutylene	100 LBS		

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Sulfuric acid

t-Butyl alcohol

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Sulfuric acid

DEA - precursor element

This product does contain the following chemical(s), as indicated below, currrently on the DEA Final Precursors and Essential Chemicals Listed Components list.

Acetone

Sulfuric acid

California Prop 65 - Carcinogen

This product does contain the following chemical(s), as indicated below, currently on the California list of Known Carcinogens.

Sulfuric acid

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Acetone

Sulfuric acid

Product Code: 999008 Revision: 3 Issued:02 JAN 2007 Page 7 of 8



Material Safety Data Sheet

Arkema Inc.

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. t-Butyl alcohol

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

16 OTHER INFORMATION

Revision Information

Revision Date

02 JAN 2007

Revision Number 3

Supercedes Revision Dated

02-JAN-2007

Revision Summary

This product has been moved to the Functional Additives business unit.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Product Code: 999008 Revision: 3 Issued: 02 JAN 2007 Page 8 of 8

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008



Spent Acid

Printed: 09/03/2008 Page 1 of 5

Account

Project

ARKE-G

410597

Report To

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

ccredited	Parameter	Results	Units	RL	Flags	CAS		Bottle
028948	Waste Stream SSA					Re	eceived: 08	3/22/2008
Liqui	d Aqueous	Collected by: K Ale	exander Affii	liation	Arkema Inc.		08/21/200	8 13:45
ASTI	M D 2015		Analyzed:	RDH	08/23/2008	1130	QCgroup	285855
4N	Heating Value	439	BTU/lb	100				02
ASTI	M D3505 MOD		Analyzed;	MKV	08/26/2008	1130	QCgroup	286137
	Density	1.3585	g/cc					01
EPA	6020		Analyzed:	WOB	08/27/2008	1801	QCgroup	286386
N	TCLP Arsenic	0.0860	mg/L	0.010	0	7440-	38-2	10
i N	TCLP Barium	0.0164	mg/L	0.005	00	7440-	39-3	10
i N	TCLP Cadmium	ND	mg/L	0.005	00	7440-	43-9	10
iN	TCLP Chromium	2.67	mg/L	0.005	00	7440-	47- 3	10
1N	TCLP Lead	ND	mg/L	0.005	00	7439-	92-1	10
iN	TCLP Selenium	ND	mg/L	0.010	0	7782-		10
N.	TCLP Silver	ND	mg/L	0.005		7440-		10
EPA	1010A	and A	Analyzed:	RED	08/25/2008	0930	QCgroup	285980
N.	Flash Point (Reg. Limit 140.0 F)	≤ 56	Degrees F	140				02
EPA	7470A		Analyzed:	HVM	08/27/2008		QCgroup	286337
IN	TCLP Mercury	ND	mg/L	0.001	50	7439-	97-6	11
EPA	9040C		Analyzed:	MKV	08/29/2008	1310	QCgroup	286687
4N	Laboratory pH	<2 @ 15C	SU					01
EPA	9056	· · · · · · · · · · · · · · · · · · ·	Analyzed:	GDG	08/22/2008	1352	QCgroup	285983
I N	Chloride	1250	mg/L	300				01
N	Fluoride	ND	mg/L	100				01
4N	Ortho-phosphate as P	39.0	mg/L	10.0				01
EPA	Method 8270C		Analyzed:	LCY	08/30/2008	1943	QCgroup	286970
IN .	Acenaphthene	ND	ug/L	99900)	83-32	-9	14
IN	Acenaphthylene	ND	ug/L	20000	00	208-9	6-8	14
₽V	Anthracene	ND	ug/L	99900)	120-1	2-7	14
1N	Benzidine	ND	ug/L	9990		92-87	-5	14
i V	Benzo(a)anthracene	ND	ug/L	99900)	56-55	-3	14
IV	Benzo(a)pyrene	ND	ug/L	99900		50-32		14
IV	Benzo(b)fluoranthene	ND	ug/L	30000		205-9		14
1V	Benzo(ghi)perylene	ND	ug/L	99900		191-2		14
4N	Benzo(k)fluoranthene	ND	ug/L ug/L	99900		207-0		14
4N	Benzyl Butyl phthalate	ND	-	39900		85-68		14
			ug/L					
AN AV	4-Bromophenyl phenyl ether	ND	ug/L	99900		101-5		14
AN	Di-n-butylphthalate	ND	ug/L	99900	ю	84-74	-2	14

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Kelli

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ACIL

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Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058

THE COMPLETE SERVICE LAB

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

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Printed: 09/03/2008

Page 2 of 5

Account

Project

ARKE-G

410597

Report To

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

ccredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
028948	Waste Stream SSA					Received: 0	8/22/2008
Liqui	d Aqueous	Collected by:	K Alexander	Affiliation:	Arkema Inc.	08/21/20	008 13:45
EPA	Method 8270C			Analyzed: LCY	08/30/2008	1943 OCgroup	286970
IN	Indeno(1,2,3-cd)pyrene	ND	ug/L	99900		193-39-5	14
N	Bis(2-chloroethoxy)methane	ND	ug/L	120000		111-91-1	14
IV	Bis(2-chloroethyl)ether	ND	ug/L	99900		111-44-4	14
IN	Bis(2-chloroisopropyl)ether	ND	ug/L	120000)	108-60-1	14
IN	2-Chloronaphthalene	ND	ug/L	120000		91-58-7	14
N	2-Chlorophenol	ND	ug/L	99900		95-57 - 8	14
IN	4-Chlorophenyl phenyl ethe	ND	ug/L	99900		7005-72-3	14
N	Chrysene	ND	ug/L	99900		218-01-9	14
1N	Dibenz(a,h)anthracene	ND	ug/L	99900		53-70-3	14
1N	1,3-Dichlorobenzene	ND	ug/L	250000)	541-73-1	14
(N	1,2-Dichlorobenzene	ND	ug/L	250000	•	95-50-1	14
N	1,4-Dichlorobenzene	ND	ug/L	250000)	106-46-7	14
i N	3,3'-Dichlorobenzidine	ND	ug/L	648000	1	91 -9 4-1	14
N	2,4-Dichlorophenol	ND	ug/L	99900		120-83-2	14
N	2,6-Dichlorophenol	ND	ug/L	99900		87-65-0	14
N	Diethyl phthalate	ND	ug/L	99900		84-66-2	14
IN .	Dimethyl phthalate	ND	ug/L	99900		131-11-3	14
N	2,4-Dimethylphenol	ND	ug/L	99900		105-67-9	14
IN	2,4-Dinitrophenol	ND	ug/L	300000	1	51-28-5	14
N	2,4-Dinitrotoluene	ND	ug/L	99900		121-14-2	14
N	2,6-Dinitrotoluene	ND	ug/L	99900		606-20-2	14
N	1,2-DPH (as azobenzene)	ND	ug/L	99900		122-66-7	14
N	Bis(2-ethylhexyl)phthalate	ND	ug/L	750000)	117-81-7	14
N	Fluoranthene	ND	ug/L	99900		206-44-0	14
IN	Fluorene	ND	ug/L	99900		86-73-7	14
N .	Hexachlorobenzene	ND	ug/L	99900		118-74-1	14
IN	Hexachlorobutadiene	ND	ug/L	99900		87-68-3	14
N	Hexachlorocyclopentadiene	ND	ug/L	498000)	77-47-4	14
N	Hexachloroethane	ND	ug/L	300000)	67-72-1	14
IV	Isophorone	ND	ug/L	99900		78-59-1	14
N	p-Chloro-m-Cresol (4-Chloro-3-me	ND	ug/L	99900		59-50-7	14
N	4,6-Dinitro-2-methylphenol	ND	ug/L	200000)	534-52-1	14
V	Naphthalene	ND	ug/L	99900		91-20-3	14
N	Nitrobenzene	ND	ug/L	99900		98-95-3	14
N	2-Nitrophenol	ND	ug/L	120000)	88-75-5	14
N	4-Nitrophenol	ND	ug/L	99900		100-02-7	14
N	N-Nitrosodimethylamine	ND	ug/L	99900		62-75-9	14
N	N-Nitrosodiphenylamine (as DPA	ND	ug/L	120000	,	86-30-6	14
N.	Di-n-octylphthalate	ND	ug/L	99900		117-84-0	14

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste II Houston TX 77058





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Page 3 of 5

Account

Project

ARKE-G

410597

Report To

Kate Alexander

Arkema Inc.

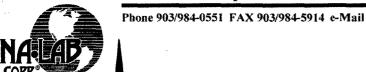
18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

ccredi	ited Parameter	Results	Units		RL	Flags	CAS		Bottle
0289	948 Waste Stream SSA						Re	ceived: 0	8/22/2008
	Liquid Aqueous	Collected by:	K Alexander	Affil	iation:	Arkema Inc.		08/21/20	08 13:45
	EPA Method 8270C	M*************************************		Analyzed:	LCY	08/30/2008	1943	QCgroup	286970
AN	Pentachiorophenol	ND	ug/L		99900		87-86-	5	14
AN	Phenanthrene	ND	ug/L		99900		85-01-	08	14
AN	Phenol	ND	ug/L		12000	0	108-95	-2	14
AN	N-Nitrosodi-n-propylamine	ND	ug/L		99900		621-64	- 7	14
4N	Pyrene	ND	ug/L		99900		129-00	-0	14
4N	1,2,4-Trichlorobenzene	ND	ug/L		99900		120-82	-1	14
4N	2,4,6-Trichlorophenol	ND	ug/L		99900		88-06-	2	14
4N	2,4,5-Trichlorophenol	ND	ug/L		99900		95-95-	4	14
	SM 2310 B, (4a) 20th	·····		Analyzed:	RED	09/02/2008	0715	QCgroup	286894
4N	Acidity	13400000	uEq/	L	50000				01
•	SM 2540 G, 20th Ed.			Analyzed:	AAT	08/25/2008	1450	QCgroup	286019
AN	Total Solids	56.5	%		0.1				01
	SM2540G			Analyzed:	AAT	08/25/2008	1450	QCgroup	286019
AN	Moisture * Dry Weight Basis	43.5	%		0.1				01

Kilgore, TX 75663 Ana-Lab Corp. P.O. Box 9000

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com



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Account

Project

ARKE-G

412866

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

ccredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
034007	Spent Sulfuric Acid					Received:	09/11/2008
Liqu	id Aqueous	Collected by: Client		Affiliation:	Arkema Inc.	09/09/	2008 12:00
EPA	Method 8260B			Analyzed: JLH	09/12/2008	1544 QCgroup	288550
4N	Acrolein	ND	ug/L	1500		107-02-8	01
4N	Acrylonitrile	ND	ug/L	500		107-13-1	01
iv	Benzene	ND	ug/L	500		71-43-2	01
ĺ٧	Bromobenzene	ND	ug/L	500		108-86-1	01
IN .	Bromochloromethane	ND	ug/L	500		74-97-5	01
I V	Bromodichloromethane	ND	ug/L	500		75-27-4	01
IV.	Bromoform	ND s	ug/L	500		75-25-2	01
IN	Bromomethane (Methyl Bromi	ND X	ug/L	500		74-83-9	01
N	tert-Butylbenzene	ND O	ug/L	500		98-06-6	01
N	sec-Butylbenzene	ND ' \ ' \ \	\ug/L	500		135-98-8	01
IN .	n-Butylbenzene	ND OO	ug/L	500		104-51-8	01
₽V	tert-Butylmethylether (MTBE)	3040	ug/L	500		1634-04-4	01
N	Carbon Tetrachloride	ND	ug/L	500		56-23-5	01
N	Chlorobenzene	ND	ug/L	500		108-90-7	01
N	Chloroethane	ND	ug/L	500		75-00-3	01
N	2-Chloroethylvinyl ether	ND	ug/L	500		110-75-8	10
N	Chloroform	ND	ug/L	500		67-66-3	01
N	Chloromethane	ND	ug/L	500		74-87-3	01
(N	1,2-Dibromo-3-chloropropane	ND	ug/L	500		96-12-8	01
N	2-Chlorotoluene	ND	ug/L	500		95-49-8	01
I V	4-Chlorotoluene	ND	ug/L	500		106-43-4	01
N	Dibromochloromethane	ND	ug/L	500		124-48- 1	01
N	1,2-Dibromoethane	ND	ug/L	500		106-93-4	01
N	Dibromomethane	ND	ug/L	500		74-95-3	01
N	1,3-Dichlorobenzene	NÐ	ug/L	500		541-73-1	01
N	1,2-Dichlorobenzene	ND	ug/L	500		95-50-1	01
N	1,4-Dichlorobenzene	ND	ug/L	500		106-46-7	01
N	Dichlorodifluoromethane	ND	ug/L	500		75-71-8	01
N	1,1-Dichloroethane	ND	ug/L	500		75-34-3	01
N	1,2-Dichloroethane	ND	ug/L	500		107-06-2	01
N	trans-1,2-Dichloroethene	ND	ug/L	500		156-60-5	01
V	cis-1,2-Dichloroethene	ND	ug/L	500		156-59-2	01
N	1,1-Dichloroethylene	ND	ug/L	500		75-35-4	01
N	1,2-Dichloropropane	ND	ug/L	500		78-87-5	01
N	2,2-Dichloropropane	ND	ug/L	500		594-20-7	01
N	1,3-Dichloropropane	ND	ug/L	500		142-28-9	01
N	cis-1,3-Dichloropropene	ND	ug/L	500		10061-01-5	01
N	trans-1,3-Dichloropropene	ND	ug/L	500	•	10061-01-5	01

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058





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THE COMPLETE SERVICE LAB Report To

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

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Page 2 of 4

Account

Project

ARKE-G

412866

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

Accredited	Parameter	Results	Units	RL	Flags	CAS		Bottle
034007	Spent Sulfuric Acid					Re	ceived: 0	9/11/2008
Liqui	d Aqueous	Collected by: Client	2	Affiliation:	Arkema Inc.		09/09/20	08 12:00
EPA	Method 8260B		Analy:	ed: JLH	09/12/2008	1544	QCgroup	288550
1N	1,1-Dichloropropene	ND	ug/L	500		563-58	-6	01
IN	Ethylbenzene	ND	ug/L	500		100-41	-4	01
4N	Hexachlorobutadiene	ND	ug/L	500		87-68-3	}	01
N	Isopropy!benzene (Cumene)	ND	ug/L	500		98-82-	3	01
íN	p-Isopropyltoluene	ND	ug/L	500		99-87-	01	
4N	Methyl ethyl ketone (Butanone)	2250 0 ,	ug/L	2500		78-93-	3	01
4N	Methyl Isobutyl Ketone	630	ug/L	500		108-10	-1	01
I N	Methylene chloride	ND	ug/L	500		75-09-2	2	01
4N	Naphthalene	ND	ug/L	500		91-20-3	3	01
N	n-Propylbenzene	ND	ug/L	500		103-65	-1	01
N	Styrene	ND	ug/L	500		100-42	-5	01
1N	1,1,2,2-Tetrachloroethane	ND	ug/L	500		79-34-	5	01
íN	1,1,1,2-Tetrachloroethane	ND	ug/L	500		630-20	- 6	01
IN .	Tetrachloroethylene	ND	ug/L	500		127-18	-4	01
IN	Toluene	.4260	ug/L	500		108-88	-3	01
iN	1,2,4-Trichlorobenzene	ND	ug/L	500		120-82	-1	01
IV	1,2,3-Trichlorobenzene	ND	ug/L	1000		87-61-	5	01
iN	1,1,1-Trichloroethane	ND	ug/L	500		71-55-	5	10
IN .	1,1,2-Trichloroethane	ND	ug/L	500		79-00-	5	01
1N	Trichloroethylene	ND	ug/L	500		79-01-	5	01
iN	Trichlorofluoromethane	ND	ug/L	500		75-69-		01
4N	1,2,3-Trichloropropane	ND	ug/L	500		96-18-	f	10
4N	1,2,4-Trimethylbenzene	ND	ug/L	500		95-63-		01
4N	1,3,5-Trimethylbenzene	ND	ug/L	500		108-67		01
4N	Vinyl chloride	ND	ug/L	500		75-01-	1	01
iN	m- and p-Xylene	ND	ug/L	500		108-38		01
IV	o-Xylene	ND	ug/L	500		95-47-		01
	Method 8260B			zed: JLH	09/15/2008	1512	QCgroup	288694
4N	Acetone	1320000	ug/L	25000		67-64-		01
		Sample Prepa	aration					

034007

Spent Sulfuric Acid

Received: 09/11/2008

EPA Method 8260B

Analyzed: JLH 09/12/2008

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058

1544



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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: 5-10

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3380

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recyclable Used Oil

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Used oil removed from returning units from

Color: Varies Odor: None

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



U.S. EPA ID N	4904 (Phone (71 lumber: T	Friggs (13) 676 XD008	Road, H I-1460 950461		77021 576-1676 lumber: 309		U.S. EF	24: Pho	20 S. Gulfwa	y Dr., Port Art 5-1460 Fax: 000079307	hur, TX 7764 (713) 676-146	1
TCE	Q industr	ial Soli	d Waste	Permit Nu	mber: 30948	8	1					
SECTION 1: Company:				_								
Address:				Pkwy E.		·····			·····			
City:		Houston State:							Zip:	·······		77032
Contact:	Tilden G	aspar	d				Title:		Managem	*****		
Phone Num	ber:		713-482-0605				Fax Number:		: 713-482-0699			·
24/hr Phon	e Numbe	r: 3	36-827	7-3614	THE		_					
US EPA ID No: State ID No:			TXCESQG				-					
		3	CESQG				SIC Code	2:				
		_					_		_			
SECTION 2: Company:	Billing In	forma	ation -	<u> </u>	ame as Ab	ove	,					
Address:												
City:		_			St	ate:			_Zip:			
Contact:					····		Title:					
Phone Num	ber:	-					_Fax Num	iber:				
SECTION 3:	General	Descr	iption (of the Was	<u>te</u>							
Name of Wa		-		ole Used C		.		······································				
Detailed De	scription	OT P10	ocess G	enerating	waste:							
Used oil ren	noved fro	m reti	urning	inits from								
0404 011 1011	10100110			21110 110111								
Physical Sta		_	iquid olid		_	udge Iter Cake	•		Powder Combinati	ion		
Color:	Varies						Odor:		None			
Specific Gra	vity (wat	er=1):		<u>.7</u>	3		•		Density:	8-Jul	lbs/gal	
Does this m	aterial co	ntain	any to	tal phenol	ic compou	nds?		Yes	V	No		
Does this m	aterial co	ntain	any pa	ra substit	uted pheno	olic comp	oounds?			Yes 🗸	No	
I s the Wast e Answer "Yes	•				*		•			FF) of the follov	☐ · Yes	☑ No
2812		813		2816	2819	2821		2822			2833	3 2834
2835		836		2841	2842	2843		2844	2851	2861	2865	
2873		874		2876	2879	2891		2892			2899	9 2911
3312		953		4959	9511							
Layers:		Single	-phase		Multi-pl	nase						
Container Ty	ype:		rum	☐ Tot	e 🗹 Tr	uck 🗌	Other (e	xplain	1)			
Frequency: Quantity:	☐ Wee		☑ Moi	othly 🔲	Yearly 🗌	One-Ti	ime					

is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes ✓ No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto									
If "Yes", Is	s it:] D001 (Ignital Aetals:	ole)	D002 (Corr		D003 (Rea	-	□ D009	
			D010	-		LL 5007	0000		
Characterist Na	tic for Toxic C	Organics: D012	2 thru D043 (p	lease list al	l that apply)	***************************************		···········	
Is this an "F" or "K" Listed waste or mixed with one? If "Yes", then please list ALL applicable codes: NA									
Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? Yes No									
If "Yes", ti	hen please lis	it ALL applical	ble codes:		NA				
Texas State Waste Code Number: Recyclable									
Proper US D	OT Shipping	Name:	Recyclable L	Jsed Oil					
Class:	NA	UN/NA:	NA	PG:	NA	RQ:	NA		
Flash	Point	n	Н	Reacti	ve Sulfides	Reactive	Cyanides	Soli	ds
	60	<u> </u>	10	0	······································		0 mg/l		%
. Oll &	Grease	T	OC		Zinc	Co	Copper		kel
					mg/l 0 mg/l				
Na	<u>mg/l</u>	Na	<u>mg/l</u>	0	mg/l	0	mg/I	0	<u>mg/l</u>
	Physical and	Chemical Data	9	0	mg/l			0	
SECTION 4:	Physical and CON	Chemical Data	BLE			CONCEN'	TRATOIN	0	UNITS
SECTION 4:	Physical and CON waste consi	Chemical Data MPONENTS TA sts of the folio	a BLE owing materia			CONCEN' Ranges are	TRATOIN acceptable	0	UNITS or %
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	3	UNITS or % %
SECTION 4:	Physical and CON waste consi	Chemical Data MPONENTS TA sts of the folio	a BLE owing materia			CONCEN' Ranges are	TRATOIN acceptable 100	0	UNITS or %
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	3	UNITS or % %
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	8	UNITS or % %
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	0	UNITS or % %
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	8	UNITS or % %
SECTION 4:	Physical and CON waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	8	UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	3	UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100	8	UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100		UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100		UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100		UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100		UNITS or % %
SECTION 4:	Physical and CON e waste consi	Chemical Data IPONENTS TA sts of the folk sed Oil/Diese	a BLE owing materia			CONCEN' Ranges are 98-	TRATOIN acceptable 100		UNITS or % %

If the handling Level D PPE			ne use of sp	ecial protec	ctive equip	ment, please	explain.	
SECTION 6: At: List all docume approval packa	nts, notes,			ached to thi	is form as p	part of the wa	aste	
SECTION 7: Inc Please list ALL i Oxidizers			:					
SECTION 8: Ge Laboratory and based upon the	lysis of the	hazardous w	aste charac		ted below,	WAS NOT P	ERFORMED	
TCLP Metals:		Na						
TCLP Volatiles:		Na			,_,			
TCLP Semi-Vola	atlies:	Na		***************************************				
Reactivity:		Na						······································
Corrosivity:		Na			······································	· ··,	· · · · · · · · · · · · · · · · · · ·	
Ignitability:		Na						
	•						·	
SECTION 9: Was	ste Receipt	Classification 1	Under 40 CFF	R 437 (Prtain	ing to Pre-1	reatment Rec	uirements fo	or Centralized Waste Treatmen
Facilities)			·				_	
Js t		l a wastewate		iter sludge?			✓ YES	☐ NO
	If 'Yes', co	emplete this se	ection.					
PL	EASE CHECK	(THE APPROP	RIATE BOX.	IF NO APPRO	OPRIATE CA	TEGORY, GO T	O THE NEXT	PAGE.
Metals Subcated								
		olating baths a g rinse water a		:S				
	romate was	-	iita sindees					
Air	pollution c	ontrol blow do	own water ar	nd sludges				
☐ Sp	ent anodizi	ng solutions						
		astewaters						
	aste liquid r	nercury iining wastes g		126 ma/l				
		nd bases with						
		ng, and surfac			rom electro	plating or pho	sphating ope	erations
☐ Vit	bratory deb	urring wastew	ater			. •		
Alk	kaline and a	cid solutions u	ised to clean	metal parts	or equipme	nt		
Oils Subcategory	u : Subpart	B						
	ed oils							
	l-water emu	ilsions or mixti	ures					
= ::	bricants							
==	olants	, ,		.				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		groundwater	clean-up fro	m petroleun	n sources			
	eo petroleu spill clean-	m products un						
	ge water							
		aters from net	roleum sour	res				

ļ	Interceptor wastes
<u> </u>	Off-specification fuels
<u>_</u>	Underground storage remediation waste
<u></u>	_ Tank clean-out from petroleum or oily sources
<u> </u>	Non-contact used glycols
<u> </u>	Aqueous and oil mixtures from parts cleaning operations
L	J Wastewater from oil bearing paint washes
Organics Su	bcategory: Subpart C
<u>_</u>	Landfill leachate
<u> </u>	Contaminated groundwater clean-up from non-petroleum sources
<u></u>	Solvent-bearing wastes
느	Off-specification organic product
누] Still bottoms
 	J Byproduct waste glycol
 	Wastewater from paint washes
<u> </u>	Wastewater from adhesives and/or epoxies formulation
<u> -</u>	Wastewater from organic chemical product operations
L.	Tank clean-out from organic, non-petroleum sources
(1)	
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	MICKEL 37.3 (1887)
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10	Additional Instructions
. =	
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	tion contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
	- · · · · · · · · · · · · · · · · · · ·
	tify that the above and attached description is complete and accurate to the best of
	ge and ability to determine that no deliberate or willful omissions of compostion
properties e	xist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
Authorized	-1/. by
Printed Nar	ne/Title: Tilden Gaspard
CES LISE ON	LY (DO NOT WRITE IN THIS SPACE)
VIL VII	2. 150 1101 1110 01 1100)
Camaltan -	Officer () A A A A
Compliance	
ل Date:	Approved Rejected
Approval Nu	imber: '



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

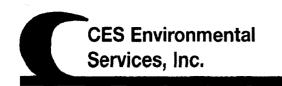
1.	Base Pricing (including freight):
	CES Pays
ļ	
J	
ļ	
i	
2.	Contamination Limits (maximum limit before surcharges apply):
[fails CHlor-d-tect
ļ	Flash <120 F
·	
3.	Surcharge Pricing:
	Call sales rep (Dan Bowman 713-854-6150)
4.	Special Testing Requirements:
İ	TOC, metals, flash, chlor-d-tect, Viscosity,
Ì	
l	
_	
5.	Treatment and Handling Protocol:
	Used oil
Ì	
_	Treated Wastewater Discharge Subcategory:
6.	Treaten wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
- 1	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	Used oil tests
8.	Management for Product Recovered/Recycled (if applicable):
8.	
8.	Management for Product Recovered/Recycled (if applicable): sell oil portion in used oil market
8.	
8.	
8.	

3381 Malin Intl Ship Repair



Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Glenn

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3381

Expiration Date 6/17/2011

Generator: Malin International Ship Repair

Address: 320 77th St. - Pier 34

Galveston, TX 77554

Waste Information

Name of Waste: Recyclable oily water

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oily water/blige water removed from a barge prior to repair

Color: Varies

Odor: None

pH: 4-9

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

2816800027 ton p.2 Howston DB/MM



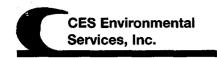
	4904 Griggs Road, Houston, TX 77021 CES Environmental Services - Port Arthur Facility 4904 Griggs Road, Houston, TX 77021 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1676 Phone (713) 676-1460													
U.S. EPA ID 1	-	_			Number: 3		HEE		ne (713) 67 lumber: TXI		•	13) 676-14 ISWR Nur		98585
					ımber: 309		03.5	ra ID N	MILIDEL, IN	1000073	307	DANK MOI	muer, e	36363
ICI	CT WOODS	Hai Sull	n asaze	Permit No	inber: 303	248	ــــــــــــــــــــــــــــــــــــــ							
SECTION 1:					*									
Company:	Malin i	nterna	tional Si	nip Repai	<u></u>									
Address:	320 77	th St	Pier 39											
City:	Galvest	ton				State:	TX		2lp:					77554
Contact:	Glenn F	Pitts					_Title:		Agent					
Phone Nun	ıber:	2	281-960	-2712			Fax Nur	nber:						
24/hr Phon	e Numb	er: _					_							
US EPA ID I	Vo:	1	CESQ	3										
State ID No);	9	ESQG	ESQG			SIC Cod	B:						
SECTION 2:	Billing I	<u>nform:</u>	<u>atlon-</u>		iame as A	<u>bove</u>								
Company:	Dynam	ic Rent	als											
Address:	2920 E	ast X St	reet											
City:	La Port	е,				State:	TX		Zip:					77571
Contact:	Glenn f	itts					Title:							
Phone Num	iber:	2	81-960	-2712			Fax Nun	nber:						
SECTION 3:	Genera	<u>Descr</u>	<u>iption a</u>	f the Wa	ste									
Name of W		_		le Oily W										
Detailed De	escription	n of Pro	ocess G	enerating	: Waste:							•		
Oily water/	bilge wat	ter rem	oved fr	om a bar	ge prior to	repair								
Physical Sta	ite:	=	bîvpî			Sludge			Powder					
		□ S	iolid			Filter Cake	•		Combinat	lion				
Color:	Varies						Odor:		None					
<u> </u>				_										
Specific Gra	wity (wa	ter=1):		<u>.9-</u>	1		-		Density:	8-8.34	<u> </u>	s/gal		
					_		_			_				
Does this m	ateriai c	ontain	any tot	al pheno	lic compo	runds?	u	Yes	Ľ	No				
											_			
Does this m	aterial c	ontain	any pai	ra substit	tuted phe	nolic com	ounds?			Yes	☑ N	0		
		_	_									_		
Is the Wast	-						•		_,		[Yes	Ø	Na
Answer "Ye												B:		
2812		2813		2816	2819	2821		2822			2824	283	3	2834
2835		2836		2841	2842	2843		2844			2 8 61	286	5	2869
2873		2874		2876	2879	2891		2892	289	3 2	2896	2899	3	2911
3312	!	4953		4959	9511									
layers:		Single	-phase	[2] Multi-	phase								
•	-			<u></u>										
Container T	Ype:		nım	☐ Tot	te 🗹	Truck 🗌	Other (e	xpłain)					
Frequency:				thly 📋	Yearly [One-T	lme							
Quantity:	approx	30,000)											

SECTION 5: Safety Re	slated Data
If the handling of this	waste requires the use of special protective equipment, please explain.
Level D PPE	
·	
	Supporting Documents
	ites, data and/or analysis attached to this form as part of the waste
approvat package.	None- Generator's knowledge
SECTION 7: Incompa	kibilities
Please list ALL incomp	vatibilities (if any):
Oxidizers	
	n's Knowledge Documentation
Laboratory analysis of	the hazardous waste characteristics, listed below, WAS NOT PERFORMED
based upon the follow	ving generator knowledge:
TOUR LANGE.	Ma Marada Barasa
TCLP Metals:	Na-None in Process
TCLP Volatiles:	Na-None in Process
TCLP Semi-Volatiles:	Na-None in Process
Reactivity:	Na-None in Process
Corrosivity:	Na-Noné in Process
ignitability:	Na-None in Process
SECTION 9: Waste Reco	eigh Classification Under 40 CFR 432 (Progining to Pre-Treatment Requirements for Cantralized Waste Treatment
Fedilities)	
	terfal a wastewater or wastewater sludge?
if 'Ye	s', complete this section.
PLEASE CI	HECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory : S	illment A
	ctropiating baths and/or studges
	shing rinse water and sludges
Chromate	
	on control blow down water and sludges
 '	dizing solutions
ation .	on wastewaters uid mercury
	ontaining wastes greater than 136 mg/l
	ds and bases with or without metals
	rinsing, and surface preparation solutions from electroplating or phosphating operations
	deburring wastewater
☐ Alkaline a	nd acid solutions used to clean metal parts or equipment
Olis Subcategocy: Subj	part B
Used olk	
=	emulsions ar mbaures
Lubricants Coolants	i
=	ated groundwater clean-up from petroleum sources
	oleum products
Oil spill ch	ean-up ·
Bilge water	
☐ Rinse/was	ih waters from petroleum sources

		ous Waste" per mplete, sign and			_		☑ No attached hereto			
if "Yes", i	ls it:] 0001 (Ignitabl	le)	D002 (Co	rrosive)	☐ D003 (R	eactive)			
Characteris	tic for Toxic	Metals:	☐ D004 ☐ D010	=		06 🗆 00	07 🗍 D008	□ D009		
Characteris Na	tic for Taxic	Organics: D012	thru D043 (please list a	all that apply)					
		ed waste or mix ist ALL applicab		17	Na Y	es	☑ No			
	-	duct or spill de				waste code	under			
	.33(e) or (f)? ;hen please f	ist ALL applicab		res L	☑ No Na					
Texas State	Waste Code	Number:		Recyleble	·					
Proper US (OT Shipping	Name:	Recyclable (Oily Water	Mixture					
Class:	Na	_UN/NA:	Na	PG:	Na	RQ:	Na			
				Reactive Sulfides			Reactive Cyanides		Solids	
Flash	ı Point	pł	l	React	ive Sulfides	Reacti	ve Cyanides	Sol	ids	
>	Point 200 Greese	94-5	9	React 0	me/l	0	mg/l	0-3	%	

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Bilge Water	96-99	%
Oil	1-4	%
		-
<u> </u>		
		1

Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mutures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxiles formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Olis Subcategory Organics Subcategory
SECTION 10 Additional instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and OII and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document. Date:
Printed Name/Title: 6 km 1 1775 / Agent
Ces Use ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: A There A Date: 6-16-04 3381 Approval Number: 3381



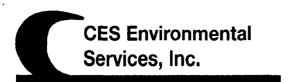
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.09/gal <5000 TOC, \$70/hr plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	Fail chlor d tect, flash <120
3.	Surcharge Pricing:
	Call Dan Bowman if surcharges should apply
4.	Special Testing Requirements: Flash, CHlor d tect, phenol, TOC
	riasii, eriioi di teet, piienoi, 100
ı	
5.	Treatment and Handling Protocol:
	Oily water
ı	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	Na
8.	Management for Product Recovered/Recycled (if applicable);
	Na



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: 5-10

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3382

Expiration Date 6/17/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recyclable Oily Rags

TCEQ Waste Code #:

Container Type:

Detailed Description of Process Generating Waste:

Oily rags and absorbents from cleaning up oil spills

Color: Varies Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Odor: None

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

DB/mm Recycle - PACES

CES Environmental Services, Inc.

CES Environmental Services - Houston Facility
4904 Griggs Road, Houston, TX 77021
Phone (713) 676-1460 Fax: (713) 676-1676
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900
TCEQ Industrial Solid Waste Permit Number: 30948

CES Environmental Services - Port Arthur Facility
2420 S. Gulfway Dr., Port Arthur, TX 77641
Phone (713) 676-1460 Fax: (713) 676-1460
U.S. EPA ID Number: TXR000079307 ISWR Number: 88585

CECTION 1.	Canan		. £	la ia						-		·				
SECTION 1: Company:			weil Var													
Address:	-	***********		n Pkwy E.							·	***************************************				
City:	Houst		110000		·	State:		TX		Zip:						77032
Contact:	Tilden		ard	········		_		Title:		Manager	nent					
Phone Num	ber:	 }	713-48	2-0605	7		_	Fax Nun	nber:	713-482-				************	~	
24/hr Phone	e Numt	er:	936-82	7-3614			*************	•				-				***************************************
US EPA ID N	o:		TXCESC)G												
State ID No:	1		CESQG					SIC Code	: :							
SECTION 2:	Rilling	Infor	mation .	П.	Same as	Ahovo										
Company:	Dimire	IIIIOII	Hation-	ш:	30111E 43	MOOVE										
Address:								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
City:						State:				Zip:						
Contact:							•	Title:								
Phone Num	ber:							Fax Nun	nber:							·····
																······································
SECTION 3:	Genera	al Des	cription	of the Wa	ste											
Al £ 104-			n	LL Ott. D												
Name of Wa			***************************************	ble Oily R												
Detailed De	scriptio	n or i	rocess (seneratinį	g waste:											
Oily rags and	i absori	bents	from cle	aning up o	alliga lig											
,															************	
Physical Sta	te:		Liquid			Słudge	2			Powder						
		V	Solid			Filter (Cake			Combina	tion					
Color:	Varies					_		Odor:		None	·····					
Spacific Gra	d a n fan	****	11.	1-:	1 2					Doneitsa	8.5-9	1 i	bs/ga	ı		
Specific Grav	arch (me	iter=.	.):	<u> </u>	1.3					Density:	6.5*	·'	ns/Ro	1)		
Does this ma	aterial	conta	in any to	otal pheno	lic comp	ounds?	•		Yes	Ū] No					
					•											
Does this ma	ateriai (conta	in any p	ara substi	tuted ph	enolic c	omp	ounds?			Yes	☑ [No			
Is the Waste	subjec	t to t	he benzi	ene waste	onerati	on NESH	COAL	IAO CER	Part 6	1 Suhnar	+ FF\		т	Yes	v	No
Answer "Yes	•				•			•		•	•	followi	ing:		ت	
2812	,	2813		2816	2819		2821	, .	2822			2824		2833		2834
2835		2836		2841	2842		2843		2844			2861		2865		2869
2873		2874		2876	2879	-	2891		2892			2896		2899		2911
3312		4953		4959	9511						_					
Layers:		Sing	le-phase	• 🖸] Mult	i-phase										
			_		,,,,,	٠										
Container Ty	/pe:	V	Drum	To	te	Truck	4	Other (e	xplair	1)						
Frequency:					Yearly	□ Oı	ne-Ti	me								

Is this a USEPA "Hazar if "Yes", then please of if "Yes", is it: Characteristic for Toxi Characteristic for Toxi	omplete, sign and D001 (Ignitat	date the Uni	D002 (Col) D002 (Col) D00	rrosive) [5	ents Form atta	ctive)	□ 0009	
Is this an "F" or "K" Lis			ıe?	☐ Ye	s 7	No		
Is this a commercial p. 40 CFR 261.33(e) or (f If "Yes", then please	17			'a "U" or "P" w ☑ No NA	aste code un	der	,,	
Texas State Waste Co	ie Number:		Recyclabl	e				
Proper US DOT Shippi	ng Name:	Recyclable	Used oil fill	ters				
Class: NA	UN/NA:	NA	PG:	NA	RQ:	NA		
		, , -						
Flash Point	р		Reac	tive Sulfides		Cyanides	Sol	
>160		10	0	mg/l	0	mg/l	98-100	%
Oil & Grease	TC) <u>C</u>		Zinc	Cor	per	Nic	kel
Na <u>mg/l</u>	Na	<u>mg/l</u>	0	mg/i	0	mg/l	0	<u>mg/i</u>
SECTION 4: Physical ar	nd Chemical Data	1						
O	OMPONENTS TA	BLE			CONCENT	RATOIN		UNITS
The waste co	nciete of the follo	wing mater	riale		Panaga ara	accontable		or 9/

SECTION 4:	Physicai	and Chem	rical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Oily Rags/Pads/Absorbents	97-100	%
Oily Debris	0-3	%

	· · · · · · · · · · · · · · · · · · ·	
	······································	
	······································	
		

			use of special prote	ctive equipment, pl	ease explain.	
	ments, notes	pporting Docum , data and/or an None	nents nalysis attached to th	is form as part of th	ne waste	
	Incompatib LL incompati	illties bilities (if any):				
Laboratory	analysis of th	Knowledge Do e hazardous wa g generator kno	ste characteristics, li	sted below, WAS N	OT PERFORMED	
TCLP Metals	:	Na				
TCLP Volatil	es;	Na			<u> </u>	
TCLP Semi-V	/olatiles:	Na				
Reactivity:		Na				
Corrosivity:		Na				
Ignitability:		Na				
SECTION 9: \ Facilities)	ls this materi		or wastewater sludge?		t Requirements fo	or Centralized Waste Treatment NO
	PLEASE CHEC	K THE APPROPRI	ATE BOX. IF NO APPR	OPRIATE CATEGORY,	GO TO THE NEXT	PAGE.
	Metal finishin Chromate wa Air pollution Spent anodiz Incineration Waste liquid Cyanide-cont Waste acids Cleaning, rins Vibratory del	plating baths and ng rinse water an istes control blow dow ing solutions wastewaters mercury aining wastes greand bases with or sing, and surface purring wastewate purring wastewate	d sludges on water and sludges eater than 136 mg/l without metals preparation solutions		r phosphating ope	erations
	Lubricants Coolants Contaminate Used petrole Oil spill clean	uisions or mixtur d groundwater cl um products	es ean-up from petroleui	n sources		
	Blige water Rinse/wash v	vaters from petro	leum sources			

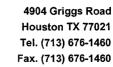
	nterceptor wastes
·	Off-specification fuels
	Underground storage remediation waste
	Fank clean-out from petroleum or olly sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
' لــا	Wastewater from oil bearing paint washes
Oraanics Subc	ategory : Subpart C
	Andfill leachate
)	Contaminated groundwater clean-up from non-petroleum sources
_	Solvent-bearing wastes
	Off-specification organic product
<u></u> :	Still bottoms
	Byproduct waste glycol
rama.	Vastewater from paint washes
	Nastewater from adhesives and/or epoxles formulation
	Nastewater from organic chemical product operations
السا	fank clean-out from organic, non-petroleum sources
(1)	
	f the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
·	
(2)	
	f the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
•	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	f the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Olis Subcategory Organics Subcategory
ECTION 10 A	dditional instructions
opper, Nickel	etermine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This acceptance. The generator will be responsible for the cost of the analysis.
ECTION 11:	Generator's Certification
	on contained herein is based on generator knowledge and/or analytical data.
	fy that the above and attached description is complete and accurate to the best of
	a and ability to determine that no deliberate or willful omissions of compostion
	st and that all known or suspected hazards have been disclosed. I certify that the
naterials test	ed are representative of all materials described by this document.
authorized Si	gnature: Jacy Jacy Of Date: 6/11/2009
rinted Name	/Title: Tilden Gaspard
ES USE ONLY	(DO NOT WRITE IN THIS SPACE)
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ompliance O	
late: $6-1$	7-09 Approved Rejected
pproval Num	ber: <u>3347</u>



1.	Base Pricing (including freight):
	\$40/dm, \$100/cy
j	\$275/load trans
}	
2.	Contamination Limits (maximum limit before surcharges apply):
ſ	Non-Conforming to profile
ĺ	
}	
ŀ	
3.	Surcharge Pricing:
	Call sales rep (Dan Bowman 713-854-6150)
4.	Special Testing Requirements:
J	None
Ì	
٠	
5.	Treatment and Handling Protocol:
[recycle to maxia box
	·
٠	
6.	Treated Wastewater Discharge Subcategory:
ſ	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
- 1	_



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
	NA



pH: 5-10



Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3383

Expiration Date 6/17/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Oily water TCEO Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oily water from washing rental generators

and when more when the second second

Color: Brown to black Odor: Slight Hydrocarbon

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

DB/mm Recycle star

CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948

CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 ISWR Number: 88585 U.S. EPA ID Number: TXR000079307

SECTION 1:	Genera	tor in	<u>formatio</u>	n										
Company:	Nationa	al Oilv	veli Varce	5										
Address:	4310 N	Sam	Houston	Pkwv E.									~~~~~~	
City:	Housto		·····			State:	TX		Zip:	***************	······································		7	7032
Contact:	Tilden (Gaspa	rd				Title:		Managen	nent	······································			
Phone Num			713-482	-0605			Fax Num	ber:	713-482-					
24/hr Phone		er:	936-827											
US EPA ID N		***************************************			"									
State ID No:			CESQG				SIC Code	<u>-</u>					***************************************	
				····		 		•						
SECTION 2:	Billing I	nforn	nation -	□ s	iame as	Above								
Company:						1.774.2								
Address:	P. T. C. C. C. C. C. C. C. C. C. C. C. C. C.						·····		***************************************		•			
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Contact:						_ state.	Title:		- 					
Phone Num							fax Num	hari						
Phone Num	ner:						FAX IVUIII	nei;						
SECTION 3:	Canavai	Bacc	wintion o	f tha Wa	cto									
SECTION S:	Genera	Desc	. HOUDUIL	I tile vva:	216									
Name of Wa	eta.		Oily Wat	· ar										
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Detailed Des	scription	OFP	rocess G	enerating	vvaste:									
Other weeks with		.												
Oily water fr	om was	ning i	entai gei	nerators					W 1107 777					
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Physical Stat	te;	넴	Liquid		닏	Sludge			Powder					
		Ц	Solid		L	Filter Cak	æ		Combina	tion				
a.1			4.				0.1		61:-1 A 15					
Color:	Brown 1	to Bla	CK			-	Odor:		Slight Hyd	rocaro	on			
n				•					Daniellon.	7 0	šla a ž	fmal		
Specific Grav	vity (wa	ter≃1	} :	<u>.9-:</u>	1		_		Density:	7.5-8	lbs/	gaı		
							ļ1		,	٦				
Does this ma	ateriai c	ontai	n any to	ai pheno	lic comp	ounds?		Yes	[~	No				
									_	.,				
Does this ma	aterial c	ontai	n any pa	ra substit	uted ph	enolic con	rpounds?		L	Yes	✓ No			
							-0.144 600				_	1 1/		A1 -
Is the Waste											<u></u>		~	No
Answer "Yes			e contair											
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2835		2836		2841	2842		-	2844			2861	2865		2869
2873		2874		2876	2879		1	2892	289	3	2896	2899		2911
3312	4	4953		4959	9511									
					_									
Layers:		Sing	le-phase	~	Mult	i-phase								
Container Ty	/pe:		Drum	Tot	ie 🗹	Truck [Other (e	xplalı	1)					
	*******		_											
Frequency:	☐ We	ekly	☑ Mor	ıthly 🔲	Yearly	One-	Time			•				
Quantity:	1000-19	500				_								

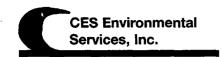
		us Waste" pei plete, sign and			Ye zardous Constitu		No tached hereto		
If "Yes", Is Characterist) D001 (Ignitab /Ietals:	le) D004 D010	L □00	05 🔲 D00	☐ D003 (Rea		□ D009	
Characterist Na	ic for Toxic C	Organics: D012	thru D043 (please list	all that apply)				
		d waste or mix st ALL applicab		17	☐ Ye	s 🔽] No		
40 CFR 261.3	33(e) or (f)?	duct or spill cle	۱		ya"U" or "P" w ☑ No NA	raste code u	nder	···	
Texas State	Waste Code	Number:		Recyclab	le		-		
Proper US D	OT Shipping	Name:	Recyclable	Oily Wate	r Mixture				
	NA	UN/NA:	NA	PG:	NA	RQ:	NA		***************************************
Flash	Point	pi	1	Read	tive Sulfides	Reactiv	e Cyanides	Soli	ds
>1	60	5-1	.0	0	mg/i	Ō	mg/l	0-3	%
Oil & 0	Grease	TO	С		Zinc	Co	pper	Nic	kel
>1500	<u>mg/l</u>	<30000	mg/l	0	<u>mg/l</u>	0	mg/l	0	mg/l
-									

SECTION 4:	Physical	and	Chemica	l Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	50-95	%
Oil	5-50	%
Antifreeze	0-3	%

		- 1 1 1 1 1 1 1 1.	ise of special prote	ctive equipment, p	lease explain.	
	ıments, notes,	pporting Docum data and/or and None		is form as part of t	ne waste	
	Incompatibil	ilties oillties (if any):				
Laboratory	analysis of the	Knowledge Docu e hazardous wast generator know	e characteristics, li	sted below, WAS N	OT PERFORMED	
TCLP Metals	s:	CES Lab will test				
TCLP Volatil	les:	Na				
TCLP Semi-\	Volatiles:	Na				
Reactivity:		Na				
Corrosivity:		Na				
Ignitability:		Na				
SECTION 9: 1	Is this materia		wastewater sludge		nt Requirements fo	r Centralized Waste Treatment NO
		·		OPRIATE CATEGORY,	GO TO THE NEXT	PAGE.
Metals Subc	Metal finishin Chromate wa Air poliution of Spent anodizi Incineration v Waste liquid of Cyanide-contri Waste acids a Cleaning, rins Vibratory deb	plating baths and/ g rinse water and stes control blow down ng solutions vastewaters mercury aining wastes grea nd bases with or v ing, and surface pi purring wastewate	water and sludges ter than 136 mg/l yithout metals eparation solutions	from electroplating o	or phosphating ope	erations
	Lubricants Coolants	ulsions or mixtures	an-up from petroleu	m sources		
	Oil spill clean Bilge water	•	um sources			

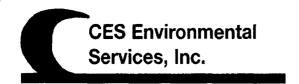
	Ш	Interceptor wastes
		Off-specification fuels
		Underground storage remediation waste
		Tank clean-out from petroleum or oily sources
		Non-contact used glycols
		Aqueous and oil mixtures from parts cleaning operations
		Wastewater from oil bearing paint washes
<u>Organics .</u>	Sub	<u>category</u> : Subpart C
	\sqcup	Landfill leachate
	Ш	Contaminated groundwater clean-up from non-petroleum sources
		Solvent-bearing wastes
	Ш	Off-specification organic product
		Still bottoms
		Byproduct waste glycol
		Wastewater from paint washes
		Wastewater from adhesives and/or epoxies formulation
		Wastewater from organic chemical product operations
		Tank clean-out from organic, non-petroleum sources
(1)		
		If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		
		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
		excess of the values listed below, the waste should be classified in the metals subcategory.
		Cadmium: 0.2 mg/L
		Chromium: 8.9 mg/L
		· · · · · · · · · · · · · · · · · · ·
		Copper: 4.9 mg/L
		Nickel: 37.5 mg/L
(3)		If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 1	0 4	Additional Instructions
Copper, N	icke	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, il, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This o acceptance. The generator will be responsible for the cost of the analysis.
The information the hereby of	mat ert	Generator's Certification Idon contained herein is based on generator knowledge and/or analytical data, ify that the above and attached description is complete and accurate to the best of ge and ability to determine that no deliberate or willful omissions of compostion
		·
		dist and that all known or suspected hazards have been disclosed. I certify that the
naterials	tes	ted are representative of all materials described by this document.
Authorize	ed S	ignature: Idden Saspard Date: 6/11/2009
Printed N	am	e/Title: Tilden Gaspard
ES LISE C	11/10	Y (DO NOT WRITE IN THIS SPACE)
UJL (-11L	in portor where it this street
		security of the security of
Complian	ce (, <u> </u>
oate:	Ų	2-17-00 Approved Rejected
Approval I	Nu	mber: ' <u>5545</u>



1.	Base Pricing (including freight):
	.17/gal up to 30,000 TOC (\$250 min)
2.	Contamination Limits (maximum limit before surcharges apply):
	>30,000 TOC
3.	Surcharge Pricing:
	Call sales rep (Dan Bowman 713-854-6150)
4.	Special Testing Requirements:
	TOC, metals, flash, chlor-d-tect on oil phase
5.	Treatment and Handling Protocol:
	Oily water treatment
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



	Tests for Product Recovered/Recycled (if applicable):
	Used oil tests
8.	Management for Product Recovered/Recycled (if applicable):
8.	
8.	Management for Product Recovered/Recycled (if applicable): sell oil portion in used oil market
8.	
8.	
8.	



Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Ron Kohler

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3384

Expiration Date 6/17/2011

Generator: C & C Lumber Inc. **Address:** 1772 Hwy 105 E

Cleveland, TX 77327

Waste Information

Name of Waste: Dirt and oil mixture w/oily debris

TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Spill clean up on dirt - hydraulic oil

Color: Black

Odor: Hydraulic

pH: Solid

Physical State:

Incompatibilities: Oxidizers

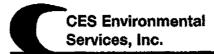
Safety Related Data/Special Handling:

Std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

OS Houston
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SECTION 1: General Company: Address: City, State, Zip: Contact: Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D.	1772 Hy Clevelarl X Pen Pettosa 136-298-324 CESQ	105 East 105 East 1077327	Title:		-Mgr.
SECTION 2: Billing Company: Address: City, State, Zip: Contact: Phone No:	Information - Same a Select Earn 223 MCa fy D. How white 281-960. 3967	15 Above ・ 2 7029 Title: Fax No:	Siles 713-255-/7	'b /	
	al Description of the Wast List + + Old Mi of Process Generating W		'hy debris an pon de	.'r+-	- hyebar W oil
Physical State: Color: Bleek	Liquid Solid	Sludge	Powder Combination		
Specific Gravity (wat	ter=1):	Density: lbs/s	gal		
Does this material co	ntain any total phenolic c	ompounds? \(\subseteq \text{Yes} \)	☑ No		
Does this material co	ntain any para substitute	d phenolic compound	is? 🗌 Yes 🔄 No)	
Layers:	Single-phase	Multi-phase			
Container Type: Container Size:	Drum SS,J.	Tote	Truck		Other (explain)
Frequency: Number of Units (con Texas State Waste C	ode No:	Monthly Cother Over 5 Q 4 8 9 1	Quarterly		Yearly
Proper U.S. DOT Sh		Mon RCRA	Non DOT Re	gula	ted material
Class: NA	UN/NA:	MA	PG: NA	J	RQ: NA

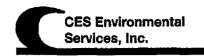
Flash Point	pH solid	Reactive Sulfides Omg/l		ve Cyanides mg/l	Solids /00		
Oil&Grease	TOC	Zinc	Copper	Ni	ickel		
>1500mg/l	NA mg/l	<u>0</u> mg/l	o_mg/	1	mg/l		
SECTION 4: Phy	ysical and Chemical	<u>Data</u>					
Di		NTS TABLE		Concent		Units	
<u> </u>		he following materials		Ranges are a	cceptable	or %	
	Dirt			801.			
	011			101		1	
ECTION 5: Saf	ety Related Data						
	this waste requires	the use of special protectiv	ve equipment, _j	olease explain.			
<u>s+d</u>							
ECTION 6: Att	ached Supporting I	ocuments					
ist all document	s, notes, data, and/o	r analysis attached to this	form as part o	f the waste apr	roval packa	ige.	
Analytical	, , ,	•			•	•	
ECTION 7: Inc	<u>ompatibilities</u>						
	mpatibilities (if any):					
oxidizers							
ECTION 8: Ger	nerator's Knowledg	e Documentation					
h			ad balanı XX/46	NOT DEDEC	DMPD bee		:
Laboratory abaly generator knowle		waste characteristics, list	ea delow, was	NOI PERFC	KIMED DAS	ea upon tae i	onowing
•	/						
TCLP Metals: TCLP Volatiles:	-						
TCLP Volumes: TCLP Semi-Vola	tiles:						
Reactivity:						•	
Corrosivity:							
gnitability:							
SECTION 9: Ge	nerator's Certificat	<u>ion</u>					
The information c	ontained herein is ba	sed on [] generator knowle	edge and/or 🗹	analytical data	. I hereby co	ertify that the	above an
attached description	on is complete and	accurate to the best of my	knowledge and	d ability to det	termine that	no deliberate	or willf
		kist and that all known or s		ds have been d	isclosed. I c	ertify that the	: materia
ested are represen	tative of all material	described by this document	ι.	,	. 14		
Authorized Signa	ture:	<u>, </u>		Date: <u>(</u>	2-16-09		
Printed Name/Ti	tle: cm	attern-					
CES USE ONLY (DO	NOT WRITE IN THIS	SPACE)					
Compliance Office	er: Laklunt	Thyd					
Date: 6-17-0	g/	Approved Rejected					
	~ ~ ~ (/					

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is th	nis material a wastewater or wastewater sludge? YES NO
If"	Yes', complete this section.
PLI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Metal</u>	's Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	ubcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromic Copper:	m: 0.2 mg/L um: 8.9 mg/L 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
	П	Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$65/dm +trans +fsc
2.	Contamination Limits (maximum limit before surcharges apply):
l	
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	No fee lypida
	%
(
5.	Treatment and Handling Protocol:
	Class 1 Solids
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7	Tests for Product Recovered/Recycled (if applicable):
L	
3.	Management for Product Recovered/Recycled (if applicable);
ſ	
İ	

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

Select Environmental

223 McCarty Dr. Houston, TX 77044 Phone: (713) 672-4500 .

(713) 255-1761

Attn:

Kevin White

- CERTIFICATE OF RESULTS -

MES Lab#:

9050078

Client Sample ID:

C & C Solida

Extended ID:

Prj: C & C Lumber, Dayton, TX

Sample Collect Date: 5/6/2009

Sample Type:

Grab

Sample Receipt Date: 5/7/2009 @ 2:00:00 PM

Test Group / Method				
Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: HDG Date / Time
C6 - C12 Hydrocarbons	4	<4	mg/kg	5/21/2009 / 4:42 PN
>C12 - C28 Hydrocarbons	8	76000	mg/kg	5/21/2009 / 4:42 PM
>C28 - C36 Hydrocarbons	8	66500	mg/kg	5/21/2009 / 4:42 PM
Total TPH	20	142000	mg/kg	6/21/2009 / 4:42 PM
BTEX				Analyst: HDG
Method: SW-846 8021B	MDL	Result	Units	Date / Time
Benzene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
Toluene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
Ethyl benzene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
M+P-Xylene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
o-Xylene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
Total Recoverable Metals (RCRA)				Analyst: JCA
Method: SW-846 6010B	MDL_	Result	Units	Date / Time
Arsenic	0.341	1.46	mg/kg	5/12/2009 / 1:28 PN
Barlum	0.01	216	mg/kg	5/12/2009 / 1:28 PM
Cadmium	0.049	1.12	mg/kg	5/12/2009 / 1:28 PM
Chromlum	0.049	15.2	mg/kg	5/12/2009 / 1:28 PM
Lead	0.122	21.4	mg/kg	5/12/2009 / 1:28 PM
Selenium	0.585	< 0.585	mg/kg	5/12/2009 / 1:28 PM
Silver	0.049	< 0.049	mg/kg	5/12/2009 / 1:28 PM
Mercury (RCRA, Automated CVAA)				Analyst: JCA
Method: SVV-846 7471A	MDL_	Result	Units	Date / Time
Mercury	0.033	< 0.033	mg/kg	5/12/2009 / 5:00 PM

Report Date: 28-May-09

Page 1 of 2

MERCURY

2814764406

89:00 8002/22/60

- CERTIFICATE OF RESULTS -

MES Lab#:

9050078

Client Sample ID:

C & C Solids

Extended ID:

Prj: C & C Lumber, Dayton, TX

Sample Collect Date: 5/6/2009

Sample Type:

Grab

Sample Receipt Date: 5/7/2009 @ 2:00:00 PM

Reactivity, Recoverable Hydrog Method: 7.3,3.2	ren Cyanide MDL	Result	Units	Anelyst: SA Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	5/13/2009 / 2:00 PM
Reactivity, Recoverable Hydrog			44 15-	Analyst: HDG
Method: 7.3.4.2	MDL	Résult	Unite	Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	6/12/2009 / 11:30 AM
Corrosivity: pH				Analyst: DB
Method: SW-846 9045	MDL	Result	Units	Date / Time
рН		7.62		5/8/2009 / 8:45 AM
Ignitability				Analyst: DEB
Method: SW-846 1010	MDL	Result	Units	Date / Time
Flashpoint		>150	deg F	5/8/2009 / 10:10 AM

Flage: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

John Keller, Ph.D., Lab Director

Thursday, May 28, 2009

Date

Report Date: 28-Mey-09

Page 2 of 2

(G) (G) 2 1 (ASAP i Bantix Key Withdra With Water	SESSENTIANT WANTER - CACIL OFFCRONDER CYCOPER - CONTRIBUTE TYPE KAY	Parenta Graines VACA Crother	Presoration Key	4:HNOS SINEDH	M BINDHAZA ASSING TANZASAGE	NOTES	Total metals per	K. White	181 DETER	MATTO REQUIRED	DETAL BELOW		-		•			on ice	, .			: Section 1983		Date: Three.	
•	ZIP.				יי א א	1	_	-						2.0								Constant	Cattoeay	Campan:	
Enstein F	Salates	_			B H 13	- ~		PARAMETERB FOR AMALY818										;;;	<i>z</i>			Publi Namis	Pithidanne	Printers	
Contrain Selate Services	Address:	Phanet	Piece		D 明 元			PARAMETE			7			-								Recorded By Education Co.	TOTAL STATE	Received By (Sign):	
	7				D B	-1	Mert.		8	沙	元点へ	11/11										Tibres Ha	Thue	Tieses, Re	
Lite Source	State:			A Choutstease Turner	oniether (C)	Presetvator: Velume	٦	, 1		(UFIT.		-										Delter 1	Dage		Scheduje.
1777 - 1737 ·		Phone:	Pane		उठा	72	-				DATECTIME SAMPLED			٠	•	•,	٨.	•	•			Ų	Company	Compane	ance of bette and assolitors in the Phys Boy
ANALYSIS REQUEST	MARY ENVIRON LABORATORIES, LLC. (15 Hwy. 225, Deer Park, TX 77636	x (281) 476-4408 / Alber Hours; (261) 844-2308			ء مصد	KIMBA	ـ بر بر			, cultivistic	YOURSAMPLE ID,	GC Solids			•		'w			•		Philippe:		Prink Namer	manality as a complained at being
SCAPING ANAL	TURY ENVIRON LA Hwy. 225, Deer Per 476-4684 / (800) 77	281) 476-4408 / All	THE MESSINGSOLOUM	tock Names) } }	7	MOG No.			ALAB NO.)			€	्र इ	6		£2	6	ta ·	(0)	September 15 (September 15)	Solution of the state of the st	Anquished By (Signi):	Cotte Delivery of examples freesilistes acceptance



Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Ashley Washington

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3385

Expiration Date 6/17/2011

Generator: Harvest Pipeline Company

Address: 10201 CR 359

Sweeny, TX 77480

Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily water from tank clean out

Color: Brown to black

Odor: Hydrocarbon

pH: 4-11

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

JC JR



Recycle istor

U.S. EPA ID N	4904 G Phone (71: Number: TX	riggs Road, Ho 3) 676-1460 (DDD8950461	ces - Houston ouston, TX 77 Fax: (713) 67 ISWR Nu Permit Numl	021 (6-146() Imber: 3(242 Pho	D S. Gulfway	Dr., Port Art -1460 Fax:	ort Arthur Fac hur, TX 7764 (713) 676-146 ISWR Num	1 50	8585
SECTION 1:	Generate	or Informatio	on									
Company:	Harvest I	Ipeline Com	pany									
Address:	10201 CI	359										
City:	Sweeny			S	-	TX		Zìp:			7	7480
Contacti		/ashington				Title:						
Phone Num		979-548				Fax Num	ber:					
24/hr Phon	-		-8206									
US EPA ID N		N/A				SIC Code						
State ID No	:	N/A				SIC CODE	•					
SECTION 2: Company: Address:	Billing In	formation -	☑ <u>Ş</u> an	ne as Ab	ove							<u> </u>
City:					tate:			Zip:				
Contact:				 "	-	Title:					_	
Phone Nurr	ber:					Fax Num	ber:					
Name of W Detailed De Olly Water	escription		ter ienerating V	/aste:								
Physical Sta	ate: [liquid Solid			ludge ilter Cake			Powder Combinati	on			
Color:	Brown to	o black				Odor:		hydrocarbo	<u> </u>			
Specific Gra	avity (wat	er=1):	.99 -1	<u></u> _				Density:	8,34	lbs/gal		
Does this n	naterial co	ontain any to	otal phenolic	compo	unds?		Yes	Ū	No			
Does this n	naterial co	ontain any p	ara substitui	ed pher	nolic comp	ounds?			Yes ✓	No		
			ene waste op ins benzene							Yes Yes	•	No
2812	2 2	813	2816	2819	2821		2822			2833		2834
2835		836	2841	2842	2843		2844			2865		2869
2873		874	2876	2879	2891		289 Z	2893	2896	2899	ı	2911
3317	2 4	953	49 59	9511								
Layers:	Ø	Single-phase	e 🗆	Multi-	phase							
Container	Түре:	Drum	Tote	<u> </u>	Truck 🔲	Other (e	xplaiı	n)				
Frequency Quantity:	: 🔲 We	ekly 🔲 Ma	onthly 🗹 Y	early [_ One-Ti	ime						

		us Waste" per iplete, sign and			Yes		No ttached heret	o	
If "Yes", Is Characterist	ic for Toxic N		☐ D004 ☐ D010	D002 (Coi	☐ D00€] D003 (Read 5 🔲 D007	•	⊡ 0 009	
Characteristi	ic for Toxic C	Organics: D012	thru D043 (:	olease list :	ill that apply)				
		d waste or mix it ALL applicab	-	?	☐ Yes		No		
40 CFR 261.3	33(e) or (f)?	luct or spill cle it ALL applicab	□ Ye		a "U" or "P" w No	aste code u	nder		
Texas State (•	RECYCLE					
Proper US De Class:	OT Shipping N/A	Name: UN/NA:	N/A	PG:	on & Water Mix N/A	RQ:	N/A		
Flash	Point	pi		React	ive Sulfides	Reactive Cyanides		Solid	ls
>1		4-1			mg/l	BRL	BRL mg/l Copper		%
>1500	Grease mg/l	N/A	C mg/l	N/A	Zinc mg/l	Nick N/A	el mg/l		
SECTION 4:		Chemical Data							
	CON	PONENTS TA	3LE			CONCENT			UNITS
	CON	PONENTS TAI	3LE	als		Ranges are	acceptable		UNITS
	CON	PONENTS TA	3LE	als als			acceptable 0		UNITS
	CON	IPONENTS TAI ists of the follo Oil	3LE	als		Ranges are 5-4	acceptable 0		UNITS or %
	CON	IPONENTS TAI ists of the follo Oil	3LE	als		Ranges are 5-4	acceptable 0		UNITS or %
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	CON	IPONENTS TAI ists of the follo Oil	3LE	3 5		Ranges are 5-4	acceptable 0		UNITS or %

06/17/2009 11:25 9794908206

SECTION 5:	Safety Rela	ted Data		
If the handl	ling of this w	aste requires the use of special protective equip	ment, please explain.	
Level D				
		· · · · · ·		
		upporting Documents		
		s, data and/or analysis attached to this form as	part of the waste	
approval pa	ackage.	None		
SECTION 7:	Incompatib	<u>illities</u>		
Please list A	ALL Incompat	lbilities (if any):		
None Know	/n			
CECTION D	. Ganaratari	e Knowledge Dogwegestation		
		<u>s Knowledge Documentation</u> he hazardous waste characteristics, listed belov	WAS NOT BEDECOME	n
•		ng generator knowledge:	e, was not real orine.	,
pasco nhoi	I THE IONOWN	ig generator knowieuge.		
TCLP Metal	le·	Not Regulated		
I C'EL INTERES		Not Regulated		
TCLP Volati				
TCLP Volati		Not Regulated		
TCLP Semi-		Non-Reactive		
TCLP Semi- Reactivity:	Volatiles:	Non-Reactive		
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9:	Volatiles:		Treatment Requirements	for Centralized Waste Treatmen
TCLP Semi- Reactivity: Corrosivity: Ignitability:	Volatiles: : : <u>Waste Receir</u> Is this mate	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge?	Treatment Requirements	for Centralized Waste Treatmen
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9:	Volatiles: : : <u>Waste Receir</u> Is this mate	Non-Reactive Non-Corrosive >200 At Classification Under 40 CFR 437 (Prtaining to Pre		
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9:	Volatiles: : : : : Waste Recele ! !s this mate !f 'Yes',	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge?	✓ YES	⊉ _wo
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities)	Volatiles: : : : : Waste Recele ! !s this mate !f 'Yes',	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Prepriate a wastewater or wastewater sludge? complete this section. **ECK THE APPROPRIATE BOX. IF INO APPROPRIATE (CORROSIVE)	✓ YES	⊉ _wo
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities)	Volatiles: Waste Receip Is this mate If 'Yes', PLEASE CHE category: Sui	Non-Reactive Non-Corrosive >200 It Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. ICK THE APPROPRIATE BOX. IF NO APPROPRIATE of copport A replating baths and/or sludges	✓ YES	⊉ _wo
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities)	Waste Receipt Is this mate If 'Yes', PLEASE CHE Cottegory: Sui	Non-Reactive Non-Corrosive >200 It Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. ICK THE APPROPRIATE BOX. IF NO APPROPRIATE of poport A replating baths and/or sludges ling rinse water and sludges	✓ YES	⊉ _wo
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities)	Waste Receip Is this mate If 'Yes', PLEASE CHE category: Sui Spent electr Metal finish Chromate v	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. **CK THE APPROPRIATE BOX. If NO APPROPRIATE (appart A roplating baths and/or sludges ling rinse water and sludges vastes	✓ YES	⊉ _wo
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities)	Waste Receip Is this mate If 'Yes', PLEASE CHE cotegory: Sui Spent electr Metal finish Chromate v Air pollution	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. **CK THE APPROPRIATE BOX. If NO APPROPRIATE (bpart A roplating baths and/or sludges ting rinse water and sludges vastes in control blow down water and sludges	✓ YES	⊉ _wo
TCLP Semi- Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities)	Waste Receip Is this mate If 'Yes', PLEASE CHE Spent electr Metal finish Chromate v Air pollution Spent anod	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. **CK THE APPROPRIATE BOX. If NO APPROPRIATE (appart A roplating baths and/or sludges ling rinse water and sludges vastes	✓ YES	⊉ _wo
TCLP Semi-Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities) Metals Sub-	Waste Receip Is this mate If 'Yes', PLEASE CHE Spent election Metal finish Chromate v Air pollution Spent anod Incineration Waste liqui	Non-Reactive Non-Corrosive >200 **Classification Under 40 CFR 437 (Prtaining to Precial a wastewater or wastewater sludge? complete this section. **ECK THE APPROPRIATE BOX. If NO APPROPRIATE of the point A completing baths and/or sludges sing rinse water and sludges wastes in control blow down water and s udges lizing solutions is wastewaters dimercury	✓ YES	⊉ _wo
TCLP Semi-Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities) Metals Subc	Waste Receip Is this mate If 'Yes', PLEASE CHE Category: Sui Metal finish Chromate vo Air politulo Spent anod Incineration Waste liquii Cyanide-con	Non-Reactive Non-Corrosive >200 At Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. ECK THE APPROPRIATE BOX. IF INO APPROPRIATE of poport A coplating baths and/or sludges ing rinse water and sludges vastes in control blow down water and s udges izing solutions in wastewaters d mercury intaining wastes greater than 136 rig/l	✓ YES	⊉ _wo
TCLP Semi-Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities) Metals Subc	Waste Receipt Is this mate If 'Yes', PLEASE CHE Cotegory: Sui Metal finish Chromate vo Air politulo Spent anod Incineration Waste liquin Cyanide-con Waste acids	Non-Reactive Non-Corrosive >200 At Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. ECK THE APPROPRIATE BOX. IF INO APPROPRIATE of poport A coplating baths and/or sludges ing rinse water and sludges vastes in control blow down water and s udges izing solutions in wastewaters d mercury itaining wastes greater than 136 rig/l is and bases with or without metals	YES	∰NO XT PAGE.
TCLP Semi-Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities Metals Subs	Waste Receipt Is this mate If 'Yes', PLEASE CHE Spent electric Metal finish Chromate v Air pollution Josepht and Incineration Waste liquin Cyanide-cor Waste acids Cleaning, ris	Non-Reactive Non-Corrosive >200 At Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. ECK THE APPROPRIATE BOX. IF INO APPROPRIATE of populating baths and/or sludges ing rinse water and sludges vastes in control blow down water and s udges izing solutions in wastewaters in mercury itaining wastes greater than 136 ring/l is and bases with or without metals insing, and surface preparation solutions from elections	YES	∰NO XT PAGE.
TCLP Semi-Reactivity: Corrosivity: Ignitability: SECTION 9: Facilities Metals Subs	Waste Receipt Is this mate If 'Yes', PLEASE CHE Spent electric Metal finish Chromate v Air pollution Spent anod Incineration Waste liquin Cyanide-con Waste acids Cleaning, ris	Non-Reactive Non-Corrosive >200 At Classification Under 40 CFR 437 (Prtaining to Pre- rial a wastewater or wastewater sludge? complete this section. ECK THE APPROPRIATE BOX. IF INO APPROPRIATE of poport A coplating baths and/or sludges ing rinse water and sludges vastes in control blow down water and s udges izing solutions in wastewaters d mercury itaining wastes greater than 136 rig/l is and bases with or without metals	YES CATEGORY, GO TO THE NE	∰NO XT PAGE.
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 ☐ Interceptor wastes ☐ Off-specification fuels ☐ Underground storage remediation waste ☐ Tank clean-out from petroleum or oily sources ☐ Non-contact used glycols ☐ Aqueous and oil mixtures from parts cleaning operations ☐ Wastewater from oil bearing paint washes
Qraanics Subcategory: Subport C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials designed by this document.
Authorized Signature: Mey Noshington Date: 6/17/89 Printed Name/Title: Ashley Witshington / Texas Operations Margan
Printed Name/Title: Ashley WAShington / Texas Operations Marzon
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Date: 6-17-09 Approval Number: 3385

FAX

Ashley Washington





10.	TRUME, ASMEY	vasimgion_rexas (Sperations Manager
Attention: Ms. Jennifer Rust	Phone: 979-490-8	Pipeline Company	
CES ENVIRONMENTAL	Cell: 979-482-4	249	
Attention: JENNIFER	Date	6/17/09	
Fax 713.748.8664	CC:		
Phone: 713.767.1460	Pages including	cover: 7	
Urgent × For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle
• Comments:			
Jennifer			

Filling the unforgetfull minute with 60 seconds! (RK)



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joe Camp, Gary Brauckman

CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root

Date: 6/12/09

Lab Memo: 09-114

Subject: Harvest Pipeline Evaluation 0609-17

A sample of oil and water from Harvest Pipeline, Pearsall, TX, has been evaluated for processing at CES. This sample is evaluation 0609-17 and represents a one-time acquisition of approximately 100 barrels of oil mixed with water. We have the potential to receive essentially the water phase with a slight chance of acquiring the oil portion. Overall, we can take and process the water, with the oil needing further processing.

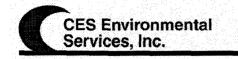
This sample is around 70% oil and is two phases. The oil is more like blended asphalt oil from its odor and is black in appearance. It is rather sticky and contains both suspended chunks or solids and some sludge that has settled out to the bottom of the container. This oil portion really needs to be centrifuged to remove these impurities. A chlor-d-tect on this oil is only 100 ppm. It blends easily with black oil and is totally miscible with toluene.

The water can be phase separated out with just a little bit of the oil remaining. I was able to treat a clean looking water sample. The pH of this water is 7 and it does not flash below 140 deg F. The water treats very easily and forms a nice large floc which readily falls out. The treated water has no phenols, TOC of 1438 ppm and very low metals.

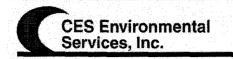
The acquisition of this water phase is highly recommended and it should pose no issues for us. The oil will need to be centrifuged for us to market it properly. The table below summarizes the analytical testing.

Harvest Pipeline						
Evaluation 0609-17						
рН	7					
Phenols, ppm	0					
TOC, mg/L	1438					
Odor	Acceptable					
Flash Point, deg F, on water	>140					
Oil, vol%	70					
Chlor-d-tect. Ppm	100					
Blendability with black oil	ОК					
Treatability	Good					
Metals, ppm						
Ni	0.000					
Zn	0.000					
Cu	0.004					
Cd	0.020					
Cr	0.019					

Henri Delauney 713-289-2671 Ashley Washington 979-482-4249

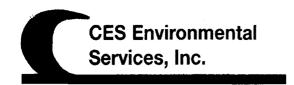


1. Base Pricing (including freight):
#,201gal oil-water
201gal oil-water # 10/hr transportating
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
call Joe Camp with questions
4. Special Testing Requirements:
Cladte it & flash on oil; % solids, water, oil, pt,
5. Treatment and Handling Protocol:
Decant oil from water. Water to WWTP
Decant on from water. Water to WWTP
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☑ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Reco	overed/Recycled (if applical	ole):	
			
8. Management for Prod	luct Recovered/Recycled (if	applicable)	
8. Management for Prod	luct Recovered/Recycled (if	applicable)	
8. Management for Prod	luct Recovered/Recycled (if	applicable)	
8. Management for Prod	luct Recovered/Recycled (if	applicable)	
8. Management for Prod	luct Recovered/Recycled (if	applicable)	
8. Management for Prod	luct Recovered/Recycled (if	applicable)	



Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Accounts Payable- Donna Landry

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3386

Expiration Date 6/17/2011

Generator: T.T. Barge (Mile 183)

Address: 7324 Hwy. 405

Donaldsonville, LA 70346

Waste Information

Name of Waste: Non hazardous wastewater

TCEQ Waste Code #: OUTS1011

Container Type:

Detailed Description of Process Generating Waste:

cleaning of barge

Color: Varies

Odor: none

pH: 8-11

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. 06/17/2009 10:20

JUN-16-2009 15:36

CES ENVIROMENTAL

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DC/MM

CES Environmental Services, Inc.

<u></u>	4904 Phone (7	Gri gg 13) 67	Road, H 76-1460	ouston, TX Fax: (713) ISWR	77021)90 0	U.S. EA	Pho	20 S. Gulfwa ne (713) 67 lumber: TX(6-1460	Fax: (7	713) 6			58 5
ł .				Permit N	umber: 909	48									
SECTION 1:	Genera	tor ic	rlormati	on											
Company:				_											
Address:	7324 F														
City:	Donald					State:	LA		Zlp:					-	70346
Contact:	Chuck						Title:	_	E/S						
Phone Num			225.47	1.8222			- . '	vber:	225-473-	2199					
24/hr Phon		er:	800-96				_								
US EPA ID N				870794			_								
State ID No			D0022				SIC Code):	NA						
J08/2 (D) 140	•		DOULL					••	1471						
SECTION 2:	Billion	adon:	hatina .	\Box	Same as A	hovo									
Company:						ET.									
Address:	19368			unus raya	W/E										
			30			State:	LA		7ln:	_					20422
City:	Convin					State:	Title:		_Zlp:	_					70433
Contact:	Donna	Land					-		226 422 6	3400		_			
Phone Num	Der:		<u>225-47</u>	3-8222			_ PAX MUIT	WET:	225-473-	7133			-		
SECTION 3:		l Qes													
Name of W	aste:		Non ha	zardous w	astewater									_	
Detailed De	scriptio	n of P	TOCREE G	pilteranai	Waste:										
cleaning of I	barge											_			
Physical Sta	Re:	<u> </u>	Liquid Solid			Sludge Filter Cak	e		Powder Combinat	tion					
Color:	varies				······································		Odon		попе						
Specific Gra	vity (wa	tev=1	ı):		,		<u>1</u>		Density:		8.34	bs/ga	ıl		
Does this m	aterial (conta	in any to	tal pheno	lic compo	unds?		Yes	Z	No					
Does this m	aterial (:onta	ln any pa	ra substi	tuted phe	natic com	pounds?			Yes	!	No			
Is the West Answer "Yes	_							_			follow	O ing:	Yes	Ø	No
2812		2813		2816	2819	28 21	1	2822	282	3	2824		2833		2834
2835		2836		2841	2842	284	3	2844	285	1	2861		2865		2869
2873		2874		2876	2879	2897	1	2892	289	3	2896		2899		2911
3312		4953		4959	9511										
Layers:	Ø	Sing	le-phase	. [] Multi-	phase									
Container T	уре:		Drum	☐ To	te 🗹	Truck [Other (d	xpleir	1)						
Fraquency: Quantity:	☑ w	eekty	□ Mo	nthly 🔲	Yearty [One-1	lime								

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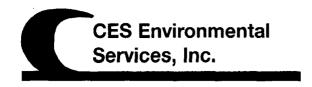
Is this a USEPA "Hazz If "Yes", then please				Yes rdous Constituen	_	No iched hereto		
If "Yes", Is it: Characteristic for To	D001 (Ignita dc Metals:		D002 (Cor D005 D011	□ 0006	D003 (Read		© 0000	
Characteristic for To	xic Organics: D0:	12 thru D043 (please list a	II that apply)				
is this an "F" or "K" i if "Yes", then pleas			e7	☐ Yes	Ø	No		
Is this a commercial 40 CFR 261.33(a) or (if 'Yes", then pleas	(f)?	□ Y		a "U" or "P" wa] No	ste code ur	nder		
Texas State Weste C	ode Number:		OUT\$1012			-		
Proper US DOT Shipp Class: NA	oing Name; UN/NA:	Non RCRA I	Non Regulat PG:	NA NA	RQ:	NA		
Flash Point		рН	React	ive Sulfides	Reactive	Cyanides	Soli	ds
>150		3-11	NA	ma/l	NA	mg/I	0-2	96
Olf & Grease <1500 mg/		roc mg/i	0	Zinc mg/l	0.043	pper mg/l	0 Nici	me/I
SECTION 4: Physical	and Chemical Da			,	CONCENT	RATOIN		UNITS
The waste o	consists of the fo	llowing materia	als		langes are		•	or%
	Water				70-			%
	Organics (residua	l oils)			5-3	30		%
				 				
				 				
				 				
								
				 				
								
								
				 				
				1			1	

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SECTION 5: S								
Standard PPE		aste requires the	use of special prot	ective equipme	int, please exp	olain.		
Standard FFE								
SECTION 6: A	Attached S	upporting Docu	nents					
List all docum	ients, note	es, data and/or a	nalysis attached to t	his form as part	t of the waste	•		
approval paci		CES Evaluation						
*******		L PATA b -						
SECTION 7: 1								
	•	tibilities (if any):						
None Known								
								
SECTION 8: 6	ienerator	s Knowledge Do	umentation					
			ste characteristics, i	listed below, W	AS NOT PERF	ORMED		
•	•	ng generator kno	-					
TCLP Metals:		X						
TCLP Volatile:	5 ?	X						
TCLP Semi-Vo	latiles:	X						
Reactivity:		X						
Corrosivity:		X						
ignitability:		X						
Facilities)	s this mate		der 40 CFR 437 (Prta or wastewater sludge tion.		-	₹ YES	NO	WASHINGTON
	 		ATE BOX. IF NO APP	DARRIATE CATE	=0 <i>0</i> V <i>60</i> m 7	WE MEYY	B466	
4	PLEASE CHE	CK THE APPROPRI	MIE BUX. IF NO NOT	NOPALATE CATE	30M7, GG 70 1	/IU NEAI	// UL ,	
Metals Subcot	enone: Sul	bpart A						
		ropieting baths an						
		ning rinse water an	d sludges					
	Chromate v Air collution		vn water and sludges					
		izing solutions						
· · · · · ·		wastewaters						
Ω,	Waste Ilqui	d mercury			•			
님:	Cyanide-coi	ntaining wastes gr s and bases with o	eater than 136 mg/l					
) :	waste acid: Cleaning, ri	s and pases with o nsing and surface	preparation solution	s from electropis	ting or phospi	nating op	erations	
~	Vibratory d	eburring wastewa	ter					
	Alkaline and	d acid solutions us	ed to clean metal par	ts or equipment				
Olis Subcoteg	anı. Gıber	srê A						
	Used oils	4.5						
		mulsions or mixtu	es					
	Lubricants							
	Coolants			um estibes-				
닏	Contamina	ted groundwater o	lean-up from petrole	um sources				
	Used petro Oil spill dea	ieum products						
ñ	Bilge water	•						
豆	Rinse/wash	waters from petr	oleum sources					

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	Tank clean-ou Non-contact u Aqueous end	on fuels storage remediation waste t from petroleum or olly sources			
	Landfill leachs Contaminated Solvent-bearle Off-specificati Still bottoms Byproduct wa Wastewater fi Wastewater fi	ipert C ite groundwater clean-up from non-petroleum gwastes on organic product	Sources		
(2)	if the waste co excess of the v Ca Ch Co	ontains oil and grease at or in excess of 100 m ontains oil and grease less than 100 mg/L, and alues listed below, the waste should be class dmlum: 0.2 mg/L condum: 8.9 mg/L oper: 4.9 mg/L kel: 37.5 mg/L	s has any of the pollutants lis	ted below in concentration	
(E)	or nickel abov	ontains oil and grease less than 100 mg/l, and e any of the values listed above, the waste si Metals Subcategory Dils Subcategory Organics Subcategory		The state of the s	соррег,
If you can Copper, I will be pr	Nickel, and Oll and (correct subcategory in Section 9 and you did Frease, CES will send offsite to a commercial The generator will be responsible for the cos	laboratory a sample to deter	•	
The info I hereby my know properti material	rmation contained certify that the al- viedge and ability es exist and that a s tested are repre-		e and accurate to the best omissions of campostion disclosed. I certify that the s document.	e Charles	^ .
	red Signature: Name/Title:	Charles Mx txlu	Da	ne: 6/17/09	
Compila Date:	ONLY (DO NOT W nce Officer: (6-) 7-00 I Number:	RITE IN THIS SPACE) MUETLY WAPPROVED HOU-3386	jected		



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Dana Carter Date: 6/15/09

CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root Lab Memo: 09-116

Subject: TT Barge Evaluation 0609-19

A sample of waste water from TT Barge, mile 83, has been evaluated for processing at CES. This sample is evaluation 0609-19 and represents a one-time acquisition of approximately 5,000 gallons of waste water. This water is produced from the cleaning of barges. Overall, this material looks acceptable for processing at CES and is recommended for acquisition.

This sample is murky in appearance with an odor of a cleaning solution which is not objectionable. It has a pH of 11. There are no oils and only a trace of solids. The water treats easily and forms a nice floc which readily separates out. The treated water retains a slightly murky appearance.

The treated water has no phenols, a TOC of 3404 ppm and acceptable metals. We will have no issues treating this water and it is recommended for acquisition and treatment at CES. The table below summarizes the analytical testing.

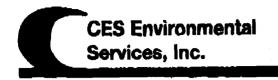
TT Bar	·ge			
Evaluation 0609-19				
Evaluation	0609-19			
рH	11			
Phenols, ppm	0			
TOC, mg/L	3404			
Solids, vol%	trace			
Odor	Acceptable			
Oil, vol%	0			
Treatability	ОК			
Metals, ppm				
Ni	0.000			
Zn	0.000			
Cu	0.043			
Cd	0.001			
Cr	0.159			

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P.002

JUN-16-2009 15:35

CES ENVIROMENTAL



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

June 16, 2009

T.T. Barge Mile 183 Attn: Chuck Metzler 7324 Highway 36 Donaldsonville, LA 70346

RE: Transportation and disposal pricing for non hazardous Class 1 Wastewater

Dear Mr. Metzler,

CES Environmental Services, Inc. appreciates the opportunity to present to you our proposal for the transportation and disposal of Non hazardous class 1 wastewater from your operations. Please find below our proposed scope of service and associated pricing for your consideration.

Scope of Service

- CES will provide a driver and vacuum trailer to pump out the wastewater.
- The water will be brought to CES under profile, treated, and discharged to the City of Houston WWTP under permit.
- CES will provide all proper shipping documents.

Estimated Costs

Transportation Services:

\$ 985.00/load

Disposal of Class 1 Non hazardous Wastewater:

\$ 0.10/gallon

Conditions/Assumptions:

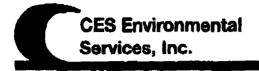
- 1. A sample will be required and a profile must be approved prior to scheduling any disposal. Profile must be given at least 72 hours for approval.
- 2. The disposal rate is valid up to 5,000 TOC. Any additional TOC will be charged at \$0.03/gal/5,000 TOC greater than 5,000 TOC.
- 3. The disposal rate is valid for up to 2% solids. Any additional solids will be charged at \$0.01/gal/1% greater than 2% solids.
- 4. Cancelations must be given 24 hours in advance. If 24 hours notice is not given, a fee will be charged.
- Transportation rate includes one hour free loading and unloading. Any additional loading time will be charged at \$70.00/hour.

JUN-16-2009 15:36

CES ENVIROMENTAL

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P.003



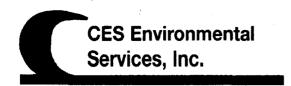
4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

- 6. Transportation rate does not include any applicable fuel surcharges as per the U.S. Department of Energy National Diesel Average. Fuel surcharges are evaluated on a monthly basis. The current rate for June 2009 is 9.5%
- 7. Energy surcharge will be charged according to the national average utility pricing index on all disposal services. At the time of this quote, the energy surcharge is 0.0%. Rate is subject to change on a monthly basis.
- 8. A 1% Compliance surcharge will be charged in order to stay compliant with federal and state government requirements. This surcharge is applied against the entire invoice (including other surcharges and direct fees).

Thank you again for the opportunity and your interest in CES Environmental Services, Inc. If you have any questions or need additional assistance, feel free to contact me at (713) 748-9804.

Sincerely,
Dana R. Carter
Account Manager

29 J. 09 8 J. 35



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/19/2009

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3387

Expiration Date 6/19/2011

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

Waste Information

Name of Waste: Used oil - refrigerant

TCEQ Waste Code #: REC

Container Type:

Detailed Description of Process Generating Waste:

Used oil from manufacturing operations

Color: Dark brown to black **Odor:** Hydrocarbon **pH:** 6.0-9.0<100

Physical State:

Incompatibilities: Strong oxidizing agents **Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

2818425097

telm Recycle How How

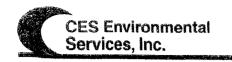
U.S. EPA ID N	Phone (713 Jumber: TXC	ggs Road, H 676-1460 008950461	ouston, TX Fax: (713) ISWR I	77021		1	24. Pho	nvironmental Serv 20 S. Gulfway Dr., ine (713) 676-146 lumber: TXR0000	Port Arthu 0 - Fax: (71	r, TX 77641	
SECTION 1:	Generato	<u>Informati</u>	<u>on</u>								
Company:	Noltex L.L										
Address:	12220 Str	ang Road						· -			
City:	<u>La Porte</u>			St	ate:	IX		Zip:			77571
Contact:	L. Kristine		_			Title:		EHS&S - Manag	cr		
Phone Num		281.84				Fax Numbe	er:	281.842.5097			
24/hr Phon						-					
US EPA ID No State ID No		138000	011106		04746	CIC Code:		2021 2060		a. •	
21416 10 140	-				34348	SIC Code:		2821, 2869			
SFCTION 2:	Billing Info	ormation -	. 🗸 🤨	Same as Abo	<u>ovc</u>	•					
Address:								7:			
City: Contact:					ate:	Title:					
Phone Num	hor					Fax Numbe					
							••				
SECTION 3:	General D	escription	of the Wa	<u>ste</u>							
Name of Wa Detailed De			il - refriger ienerating						-		
Used Oil fro	m manufac	turing ope	rations								_
Physical Sta	te: 고	Liquid Solid			idge ter Cake	[[Powder Combination			<u>.</u>
Color:	dark brow	n to black				Odar:		hydrocarbon			
Specific Gra	vity (water	=1):	0.8	-0.9				Density: (fi./-	7.5 lbs	s/gal 6	.7-7.8
Does this m	aterial con	tain any to	ital pheno	lic compour	nds?	Y	'es	✓ No			
Does this m	aterial con	tain any pa	ara substit	uted pheno	lic comp	ounds?		∐ Yes	<u></u> ✓ No)	
								1, Subpart FF)			Z No
2812			2816	2819	2821		22	2823	2824	₇ . 2833	2834
2835	28		2841	2842	2843	28		2851	2861	2865	2869
2873	28	74	2876	2879	2891	28		2893	2896	2899	2911
3312			4959	9511							
Layers:	ഥ Si	ngle-phase	<u>.</u>	Multi-ph	ase						
Container Ty	ype: [~	Drum	Tot	te Tru	ıck 🗂	Other (expl	ain)			
Frequency: Quantity:	☐ Week	ly 🔲 Mo	nthly 🔽	Yearly [One-Tir	me					

		us Waste" pei plete, sign and			☐ Ye: dous Constitue		No ched hereto		
If "Yes", Is	it:	D001 (Ignitab	le) 🗆	D002 (Corr	rosive)	0003 (Read	:tive)		
	ic for Toxic N			□0005		6 L 0007		∐] D 009	
Characterist	ic for Toxic O	Prganics: D012	D010 thru D043 (p		l that apply)				
		d waste or mis it ALL applicab		7	☐ Ye:	٠ احا	No		
40 CFR 261.	33(e) or (f)?	luct or spill cle	□ Y		"U" or "P" w	aste code un	der		
Texas State	Waste Code	Number:		Recycle					
	OT Shipping				gulated Mater				
Class:	NA	UN/NA:	NA	PG:	NA	_RQ:	<u>NA</u>		
Flash	Point	pl	н	Reacti	ve Sulfides	Reactive	Cyanides	5ol	ds
>1	41	6.0-	9.0	<100	<u>mg/</u> l	<10	mg/l	<2	%
Oil &	Grease	TO	C		Zinc	Cop	per	Nic	kel
NA	mg/l	NA	mg/l	NA	mg/l	NA	mg/l	NΛ	mg/l
<u>SECTION 4:</u>		Chemical Data				CONCENT	RATOIN		UNITS
Th		ists of the follo		ols		Ranges are a			or%
		Used Oil				88 1	00		%
		water				< 1,(CC		%
	Di	irt, Debris, Rus	<u>t</u>				· 		- %
		•							
						<u> </u>			
									

-	vaste requires the use of special protective eq	uipment, please explain.
Standard PPE		
SECTION 6: Attached	Supporting Documents	
	es, data and/or analysis attached to this form.	as nort of the weste
approval package	es, data and/or analysis attached to this form: Material sampled on 04/23/2009 and analy	
alphionar backatta	Material sampled on 04/23/2003 and undi	72000.7
SECTION 3	A Mark	
SECTION 7: Incompati		
Please list ALL incompa	• • •	
strong oxidizing agents		
SECTION 8: Generator	's Knowledge Documentation	
	the hazardous waste characteristics, listed belo	ow, WAS NOT PERFORMED
	ing generator knowledge:	·
	v. ·	
ICIP Metals:	See attached analytical report	
TCLP Volatiles:	See attached analytical report	
TCLP Semi-Volatiles:	See attached analytical report	0.00
Reactivity:	See attached analytical report	
Corrosivity:	See attached analytical report	
Ignitability:	See attached analytical report	
<u>Facilities)</u> Is this mate	erial a wastewater or wastewater sludge? , complete this section.	re-Treatment Requ <u>irements for Centralized Waste Treatment</u> YES NO
	•	CATECODY ON TO THE NEXT BAGE
PLEASE CH	ECK THE APPROPRIATE BOX. IF NO APPROPRIATE	CATPGORT, GO TO THE NEXT PAGE.
Metals Subcategory : Su	-	
	roplating baths and/or sludges hing rinac water and sludges	
Chromate	-	
Air pollutio	n control blow down water and sludges	
	fizing solutions	
Incineratio Waste liqu	n wästewaters id moreury	
	intaining wastes greater than 136 mg/l	
Waste acid	s and bases with or without metals	
	insing, and surface preparation solutions from elec-	troplating or phosphating operations
	leburring wastewarer d acid Solutions used to clean metal parts or equip	1 BU 1 1 3 1 1
r-1 Mraing an	a acid solutions used to clean metal parts of equip	NIGH
Oils Subcategory: Subp	art B	
Used oils		
☐ Oil-water e	mulsions or mixtures	
Coolants		
=	ted groundwater clean up from petroleum source	۶.
	leum products	
Oil spill cle	•	
Bilge water	in waters from petroleum sources	
1 1 10036/9931	r waters nom penonami someth	

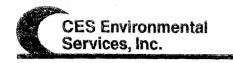
	☐ Interceptor wastes
	Off-specification (uels
	Underground storage remediation waste
	☐ Tank clean-out from petroleum or oily sources ☐ Non-contact used glycols
	Aqueous and oil motures from parts eleaning operations
	☐ Wastewater from oil bearing paint washes
Organic	s <u>Subcategory</u> : Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	☐ Off specification organic product
	Still bottoms Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
	Tank clean out from organic, non-petroleum sources
(1)	
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/l
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/l
	Nickel: 37.5 mg/L
/···	
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory
	Metals Subcategory
	☐ Oils Subcategory
	Organics Subcategory
	☐ Organics auticaregory
SECTION	10 Additional Instructions
If you ca	nnot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
	Nickel, and Oil and Grease, CFS will send offsite to a commercial laboratory a sample to determine these concentrations. This
	nor to acceptance. The generator will be responsible for the cost of the analysis.
SECTIO	V 11: Generator's Certification
The info	rmation contained herein is based on $\mathbb{R}^{ G }$ generator knowledge and/or $ G $ analytical data.
Thereby	rertify that the above and attached descylption is complete and accurate to the best of
my kno	viedge and ability to determine that no deliberate or willful omissions of composition
propert	ies exist and that all known by suspected hazards have been discloyed. I certify that the
materia	Is tested are representative of all photerials destribed by this document.
	\sqrt{A}
Authori	ved Signature: Surve Source Date: 16-18-19 Name/Title: LINETINE HPARICIO, MOR-EH545
	1) 4 MICTINE ADDING Man-F. HSUS
Printed	Name/Title: 2/7/8/5////5////////////////////////////
CES USE	ONLY (DO NOT WRITE IN THIS SPACE)
Complia	nce Officer: Jahren Chylinde
Date:	6-19-09 Approved Rejected
Approv	Il Number. HOU 3387
••	

2818425097



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$135/dm+ hours+fsc
2. Contamination Limit (maximum limit before surchages apply):
Call Joy it any grestions
3. Surcharge Pricing:
4. Special Testing Requirements:
Chlor-d-tect on composite sample, Black oil Blendativity
+ WM
5. Treatment and Handling Protocol:
Bland w/ Black oic
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Re	covered/Recycled (if applicable):	
8. Management for Pro	oduct Recovered/Recycled (if a	pplicable)	·
8. Management for Pro	oduct Recovered/Recycled (if a	pplicable)	
8. Management for Pro	oduct Recovered/Recycled (if a	pplicable)	· · · · · · · · · · · · · · · · · · ·
8. Management for Pro	oduct Recovered/Recycled (if a	oplicable)	
8. Management for Pro	oduct Recovered/Recycled (if a	pplicable)	



ANALYTICAL REPORT

Job Number: 600-9786-1

Job Description: Drums MO810194-003 & -009 4/23/09 TCLP

For: Noltex LLC 12220 Strang Road La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil a. Robingue

Approved for refease Netl A Bostogue Projud Manager II 5/7/2008 A 18 PM

Neil A Rodrigue Project Manager II neil.rodrigue@testamericainc.com 05/07/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88 0759, LADEQ 01967, OKDEO 9503, UT DOH GULF

TestAmerica Laboratories, Inc.
TestAmerica Houston 6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericaind.com



SAMPLE SUMMARY

2818425097

Client: Noltex LLC

Job Number: 600-9786-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-9786-1	Drum# M0810194-009	Waste	04/23/2009 0830	04/23/2009 1119
600-9786-2	Drum# M0810194-003	Wasie	04/23/2009 0850	04/23/2009 1119

Ms. Joy Snodgrass Noltex LLC 12220 Strang Road La Porte, TX 77571-9740 Job Number: 600-9786 1

Client Sample ID:

Drum# M0810194-009

Lab Sample ID: 600-9786-1

Date Sampled. 04/23/2009 0830

Date Received: 04/23/2009 1119 Client Matrix.

Waste

∧nalyte	Result/Qua	alifier	Unit	Min	ĸı	Ditution
Method: TCLP-8260B			Date An	alyzed:	04/27/2009 2121	
Prep Method: 5030B			of olect	•	04/27/2009 2121	
Berizene	22	IJ	1347	22	100	20
Carbon tetrachloride	22	IJ	ug/L	22	100	20
Chlorobenzene	10	U	ug/L	18	100	20
Chloroform	18	U	ug/L	10	100	20
1,2-Dichloroethane	22	IJ	ug/l.	22	100	20
1,1-Dichloroethene	23	U	υq/L	23	100	20
2 Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	4 0	U	ug/L	46	100	20
Trichloroethene	26	(,)	Ngu	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4 Dichlerobenzene	22	U	ug/L	22	100	20
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	103		%		/0 130	
Dibromofluoromethane	94		1/4		70 130	
Toluene-d8 (Surr)	109		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	85		%		70 - 130	
Method: TCI_P-8270C			Date ∧n	alyzed	04/28/2009 1946	
Prep Method: 3510C			Date Pro	epared:	04/27/2009 1126	
1.4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dimtrafoluene	0.05	IJ	ug/l	0.95	10	1.0
2,4.5-Trichtorophenol	1.3	IJ	ug/L	1.3	10	1 0
2.4.6-Trichlorophenol	0.92	υ	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	12	J	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0 90	10	10
Hexachlorobutadiene	1.1	U	υ ά /Γ	1.1	10	10
rtexachloroethane	12	U	nelų	1.2	10	1 0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0 89	U	นg/L_	0 89	50	1.0
Pyridine	1.0	U	ug/l.	0.1	10	10
Surrogate					Acceptance Limits	
Phenol d6	40		%		10 - 94	
Nitrobenzene d5	80		%		35 114	
2 Fluoraphenal	59		%		21 100	
2 Fluorobiphenyl	94		%		43 116	
2.4.6 Tribromophenol	95		%		10 123	
Terphenyl-d14	94		%		33 - 141	

05/07/2009

Job Number: 600-9786-1

Ms. Joy Snodgrass Nollex LLC 12220 Strang Road La Porte, TX 77571-9740

Client Sample ID:

Drum# M0810194-009

Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830

Date Received: 04/23/2009 1119

Client Matrix.

Waste

To: 7137488664

Analyte	Result/Quali	lier	Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date An	alyzed:	04/28/2009 1100	
Prep Method: 3010A			Date Pre	epared:	04/27/2009 1610	
Silver	0.0012	U	mg/L	0.0012	2 0.010	1.0
Arsenic	0.013	R	mg/l	0.0033	3 0.010	1.0
Barium	0.068	В	mg/l.	0 0010	0.020	1.0
Cadmium	0.00073	U	mg/L	0.000	73 0 0050	1.0
Chromun	0.0016	U	mg/L	0.0016	0.010	1.0
Lead	0.0029	U	mg/l	0.0029	0.010	1.0
Selenium	0.012	J B	mg/l	0.0040	0.040	1.0
Method: TCLP-7470A			Date An	alyzēd.	04/27/2009 1709	
Prop Method: 7470A			Date Pro	spared.	04/27/2009 1015	
Morcury	0 11	JB	ug/f	0.021	0.20	1.0
Method: 9012			Date An	alyzed.	05/07/2009 1416	
Prop Method: 7.3,3			Date Pro	epared.	05/06/2009 1300	
Reactive Cyanide	18	CI .	ug/Kg	18	250	1.0
Method: 9034			Date Ana	alyzed:	05/07/2009 1409	
Prep Method: 7.3.4			Date Pro	-	05/06/2009 1300	
Reactive Sulfide	40	١,	mg/Kg	14	50	1.0

Ms. Joy Snodgrass Noltex LLC 12220 Strang Road La Porte, TX 77571-9740 Job Number 600-9786-1

Client Sample ID:

Drum# M0810194-009

Lab Sample ID:

600-9786-1

Date Sampled: 04/23/2009 0830

Date Received, 04/23/2009 1119

Client Matrix:

Waste

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 1010		Date Anal	yzed 04/	27/2009 1810	
Flashpoint	>186	Degrees F	1.0	1.0	1.0
Method: D240-87		Date Anal	yzed 04/	29/2009 1645	
вти	19000	BTU/lb	500	500	1.0

Ms Joy Snodgrass Noltex LLC 12220 Strang Road La Porte, TX 77571-9740 Job Number: 600-9786-1

Client Sample ID:

Drum# M0810194-003

Lab Sample ID:

600-9786-2

Date Sampled. 04/23/2009 0850

Date Received: 04/23/2009 1119

Client Matrix: Waste

Analyte	Result/Qua	alifier	Unit	MOL	RL	Dilution
Method: TCLP-8260B			Date Analyzed. 04/27/2009		04/27/2009 2145	
Prep Method: 5030B			Date Pr	epared:	04/27/2009 2145	
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	IJ	ug/l	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	Ų	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/I	22	100	20
1,1-Dichlaroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ugЯ	32	100	20
1.4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate					Acceptance Limits	
4-Dromofluorobenzene	103		%		70 - 130	
Dibromofluoromethane	92		"/α		Z0 130	
Foluene-d8 (Surr)	109		%		70 - 130	
1,2 Dichloroethane d4 (Surr)	84		%		70 - 130	
Method: TCLP-8270C			Date Ar	halyzed	04/28/2009 2017	
Prep Method: 3510C			Date Pr	epared:	04/27/2009 1126	
1,4-Dichlorobenzene	13	U	ug/L	1.3	10	1.0
2.4 Dinitrotoluene	0.95	U	ug/l	0 95	10	1.0
2,4.5-Trichlorophenol	1.3	U	ug/l	1.3	10	1.0
2,4,6-Trichlorophenal	0.92	U	ug/L	0.92	10	1.0
2-Methylphenal	10	U	ug/L	1.0	10	1.0
3 & 4 Methylphonol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	Ĺl	ug/L	1.1	10	1.0
Llexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1 ()
Pentachlorophenol	0.89	U	ug/L	0.89	5Ü	1.0
Pyridine	1.0	U	ug/l	1.0	10	1.0
Surrogate	Λr		Acceptance Limits			
Phenol-dG	39		%		10 - 94	
Nitrobenzene-d5	82		1%		35 - 114	
2-f'luorophenol	58		% 21 100			
2-Fluorobiphenyl	89		%		43 116	
2,4,6-Tribromophenol	100		1/6		10 - 123	
Terphenyl-d14	86		' %		33 - 141	

Ms. Joy Snodgrass Noltex LLC 12220 Strang Road La Porte, TX 77571-9740 Job Number 600-9786-1

Client Sample ID:

Drum# M0810194-003

Lab Sample ID:

600-9786-2

Date Sampled: 04/23/2009 0850

Date Received 04/23/2009 1119

Client Matrix: Waste

Analyte	Result/Quali	fier	Unit	MDL		RL	Dilution
Method: TCLP-6010B			Date An	alyzed [.]	04/28/2009	1103	
Prep Method: 3010A			Date Pre	epared:	04/27/2009	1610	
Silver	0.0012	U	mg/L	0.00	12	0.010	1.0
Arsenic	0.0094	JВ	mg/L	0.003	33	0.010	1.0
Barium	0.077	В	mg/l	0.00	16	0.020	1.0
Cadmium	0.00073	U	mg/l	0.000)73	0.0050	1.0
Chromium	0.0016	U	mg/l	0.00	lė	0.010	1.0
Lead	0.0029	U ,	mg/L	0.002	29	0.010	1.0
Selenium	0.013	1B	nig/L	0.004	12	0.040	1.0
Method: TCLP-7470A			Dale An	alyzed:	04/27/2009	1711	
Prep Method: 7470A			Date Pre	pared:	04/27/2009	1015	
Mercury	0 14	10	ug/L	0.02	1	0.20	1 0
Melhod. 9012			Date An	alyzed	05/07/2009	1416	
Prep Method: 7,3,3			Date Fre	pared:	05/06/2009	1300	
Reactive Cyanide	18	Ų	ug/Kg	18		250	1.0
Method: 9034			Dale An	alyzed	05/07/2009	1509	
Prep Method: 7.3.4			Date Pre	pared:	05/06/2009	1300	
Reactive Sulfide	30	j	mg/Kg	14		50	1 ()

Ms. Joy Snodgrass Noftex LLC 12220 Strang Road La Porte, TX 77571-9740 Job Number: 600 9786 1

Client Sample ID:

Drum# M0810194-003

Lab Sample ID:

600-9786-2

Date Sampled 04/20/2009 0050

Date Received. 04/23/2009 1119

Chent Matrix Waste

To:7137488664

Analyte		 Result/Qualifier	Unit	RL	Řt.	Dilution
Method:	1010		Date An	alyzed 04	/27/2009 1810	
Flashpoint		≃186	Degrees F	1.0	1.0	1.0
Method:	D240-87		Date An	alyzed: 04	/29/2009 1645	
BTU		21000	RTU/lb	500	500	1.0

METHOD SUMMARY

Client. Noltex LLC

Job Number 600-9786-1

Description	Lab Location	Method	Preparation Method
Matrix: Waste			
Volable Organic Compounds (CC/MS)	TALHOU	SW846 8260B	
TOUP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TALTIOU		SW846 3510C
Metals (ICP)	IAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	FAL HOU		SW846 3010A
Mercury (CV/M)	TAL HOU	SW846 7470A	
ICLP Extraction	UQH IAT		SW846 13 [1
Preparation, Mercury	TALIIOU		SVV846 7470A
Ignitability, Pensky Martens Closed Cup Method	IVE HON	SW846 1010	
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SVV846 7 3.3
Sulfide, Acid Soluble and Insoluble (Titrimetric)	TAL HOU	SW846 9004	
Sulfide, Reactive	LICH IAT		SW846 7 3 4
Heat of Combustion	UOH JA1	ASTM /0240-87	

Lab References:

TAL HQU TestAmerica Houston

Method References:

 $\Delta SIM = ASIM$ International

SW846 = "Test Melhods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And its Updates

2818425Ø97

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-9786-1

Method	Analyst	Analyst ID
SW846 8260B	Liu. Zarlang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DGL
SW846 1010	Puranik, Surendra U	SUP
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9034	Walker, Gerald (Gerry) C	GCW
ASIM D240-87	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

2818425097

TestAmerica Houston

05/07/2009

Client: Noltex LLC

Job Number: 600-9786-1

TCLP SPLPE Leachate	Blank - Batch:	600-14163
---------------------	----------------	-----------

Method: 8260B Preparation: 5030B

TCLP

Lab Sample ID: LB 600-13999/1 A Analysis Batch: 600 14163 Instrument ID. VOA-V Client Matrix: Waste Prep Batch, N/A Lab File ID: 1111706.D Dilution: 1.0 Units. ug/L Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Leachale Balch: 600-13999

Analyto	Result	Qual	MDL	RL
Benzene	1 1	u	11	5.0
Carbon tetrachloride	1 1	U	1.1	5.0
Chlorobeazene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2 Dichloroethane	1.1	U	1.1	5.0
1.1-Dichloroethene	1 2	U	12	5.0
2-Bulanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloraethene	1 3	U	1.3	5.0
Vinyl chloride	16	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Unnits
4-Bromofluorobenzene	99	70 - 130
Dibromofluoromethane	93	70 - 130
Toluene d8 (Surr)	109	70 - 130
1.2 Dichloroethane-d4 (Smr)	84	70 - 130

Chent Nollex LLC

Job Number 600-9786-1

Method Blank - Batch: 600-14163

Method: 8260B Preparation: 5030B

 Lab Sample ID:
 MB 600-14163/3
 Analysis Batch. 600-14163
 600-14163
 Instrument ID:
 VOA-V

 Chord Matrix
 Water
 Prep Batch: N/A
 Lab File ID:
 1111708.D
 Initial Weight/Volume:
 5 mL

 Date Analyzed:
 04/27/2009 1717
 1717
 Initial Weight/Volume:
 5 ml

 Date Prepared:
 04/27/2009 1717
 1717
 1717

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1 1	5.0
Chlorobenzene	0.92	U	0.92	50
Chloroform	0.92	U	0.92	50
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	l i	1.2	5.0
2-Bu(anone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	υ	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Viny(chloride	1.6	U	1.6	5.0
1.4-Dichlorobenzene	1.1	Ů	1.1	5.0

Surrogate	% Rec	Acceptance Limit		
4-Bromofluorobenzene	102	70 - 130		
Dibromofluoromethane	93	70 - 130		
Toluene-d8 (Surr)	113	70 - 130		
1,2-Dichlorodhane-d4 (Sun)	83	70 - 130		

Client: Noltex LLC

Job Number: 600 9786 1

Lab Control Sample - Batch: 600-14163

Method: 8260B Preparation: 5030B

Lab Sample ID: LCS 600-14163/1

Analysis Batch: 600 14163

Client Matrix:

Water

Prep Batch, N/A

Instrument ID: VOA-V Lab File ID: H11703.D

Dilution: Date Analyzed: 04/27/2009 1450

1.0

Units: ug/L

Initial Weight/Volume: 5 ml

Final Weight/Volume: 5 ml

Date Prepared. 04/27/2009 1450

Analyte	Spike Amount	Result	% Rec.	Lurut	Qual
Denzene	50 0	46.0	92	69 - 124	
Carbon tetrachloride	50.0	43.9	88	57 - 134	
Chlorobenzene	50.0	49.0	98	70 129	
Chloroform	50.0	48.2	96	69 128	
1,2-Dichloroethane	50.0	44.5	89	65 134	
1,1-Dichloroethene	50.0	45.1	90	45 - 136	
2-Butanone (MEK)	100	111	111	53 - 140	
Tetrachloroethene	50.0	52.8	106	59 - 134	
Trichloroethene	50.0	45.3	91	68 - 130	
Vinyl chloride	50.0	46.4	93	38 - 153	
1.4 Oichtorobenzene	50.0	45.1	90	72 - 131	
Surrogate	% R	lee:	Ang	centance Limits	
4 Bromofluorobenzene	91	91		70 - 130	
Dibromollogromethane	96	96		70 - 130	
Foluene-d8 (Surr)	98	i	70 - 130		
1,2-Dichloroethane d4 (Surr)	87			70 - 130	

Client: Noltex LLC

Job Number: 600-9786-1

Mothod	Blank .	Batch	600-14019
WCUIOU	DIAME.	· Dattii.	עוטאו-טטס

Method: 8270C Preparation: 3510C

33 - 141

				Troparation: 55100		
Lab Sample ID: MB 600-14019/1-A Client Matrix: Water		Analysis Batch: 600 14145 Prep Batch: 600-14019		Instrument IO: MSO2348 Lab File ID Z0428904.D		
Dilulion	1.0	Unite: ug/L		Initial Weight/Volume.	1000 ml	
Date Analyzed.	04/28/2009 1742	Onits. dg/C		••		
Date Prepared.	04/27/2009 1126			Final Weigh(Volume:	1.00 mL	
вые Ргерагеа.	(19)27/2009 11/0			Injection Volume:	1.0 uL	
∧nalyte		Result	Qual	MDI_	RL	
1.4 Dichlorobenze	en c	1.3	U	1.3	10	
2.4-Dinitrotoluene		0.95	0.95 U		10	
2,4,5-Trichlorophe	enol	1.3	U	1 3	10	
2,4.6-Trichlorophenol		0.92	U	0.92	10	
2-Methylphenol		1 N U		1.0	10	
3 & 4 Methylphene	ol .	1.9	U	1.9	20	
Hexachlorobenzei	ne	0.90	0.90 U		10	
I lexachlorobutadio	ene	1 1	11 U		10	
Hexachioroethane	:	1.2	U	1.2	10	
Nitrobenzene		1.2	U	1.2	10	
Pentachloropheno	oi .	0.89	U	0 89	50	
Pyridine		10	IJ	1 0	10	
Surrogate		% Rec		Acceptance Limits		
Phonot-d6		41		10 94		
Nitroberizene-d5		78	35 - 114			
2-Fluorophenol		60		21 - 100		
2-Fluorobiphenyl		89		43 - 116		
2,4,6-Tribromopho	enol	91		10 123		
- · · · · · · · · · · · · · · · · · · ·						

90

Calculations are performed before rounding to avoid round-off errors in calculated results.

Terphenyl-d14

Client: Noltex LLC

Date Leached: 04/24/2009 1430

Job Number: 600-9786-1

Mothod: 8270C Preparation: 3510C

TCLP

Fab Sample ID: - LB 600-13990/1-C Analysis Retch: 600 14145 Instrument ID: MSD2348 Client Matrix: Waste Prep Batch 600-14019 Lab l'ile ID: Z0428907.D Dilution 1.0 Units: ug/L Initial Weight/Volume: 1005 mL Date Analyzed. 04/20/2009 1915 Final Weight/Volume: 1,00 mL Date Prepared: 04/27/2009 1126 Injection Volume. 10 ul

Leachate Batch: 600-13990

nalyte Result

Analyte	Result	Qual	KIM	RI	
1,4-Dichlorobenzene	1.3	υ	13	10	
2,4-Dinitrotoluene	0.95	U	0.95	10	
2,4,5-Trichloropheool	1.3	Ų	1.3	10	
2,4,6-Trichlorophenol	0.92	U	0.92	10	
2 Methylphenol	1.0	U	1.0	10	
3 & 4 Methylphenol	1.9	U	1.9	20	
Hexachtorobenzene	0.90	U	0 90	10	
Llexachlorobutadione	1 1	U	1 1	10	
Hexachloroethane	1.2	U	1.2	10	
Nitrobenzene	1.2	U	1.2	10	
Pentachlorophenol	0.89	U	0.89	50	
F'yridine	1.0	U	1.0	10	

Surrogale	% Rcc	Acceptance Limits		
Phenol-d6	35	10 94		
Nitrobenzene-d5	06	35 - 11 4		
2 Fluorophenot	56	21 - 100		
2-Fluorobiphenyl	92	43 116		
2.4,6-Tribromophenol	92	10 123		
Terphenyl-d14	93	111 - EC		

Client, Noltex LLC

Job Number: 600-9786-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 600-14019

Method: 8270C Preparation: 3510C

LCS Lab Sample ID: LCS 600-14019/2-A

Water

Analysis Batch: 600-14145

Instrument ID MSD2348

Client Matrix

Prop Batch 600-14019

Lab File (D: Initial Weight/Volume:

Z0428905.D

Dilution:

1.0

Units: ug/L

1000 mL

Date Analyzed: Date Prepared: 04/28/2009 1813 04/27/2009 1126

Final Weight/Volume. Injection Volume:

1.00 ml 1.0 ut

LCSD Lab Sample ID - TCSD 600-14019/3-A

Analysis Batch: 600 14145

Instrument ID: MSD2348

Client Matrix:

Date Prepared:

Water

Prep Batch, 600-14019

Lab File ID. Initial Weight/Volume:

70428906 D 1000 mL

Dilution. Date Analyzed:

1.0 04/28/2009 1844 Units: ug/L

Linal Weight/Volume.

1.00 ml.

04/27/2009 1126

Injection Volume:

1.0 UL.

	6	% <u>Rec.</u>					
Analyte	LCS	LCSD	L imit	RPO	RPD Limit	LCS Qual	LCSD Qual
2,4,5-Trichlorophenol	90	91	59 - 123	2	20		
2.4.6-Trichlorophenol	90	94	30 - 143	5	20		
2-Methylphenol	73	76	34 ~ 109	5	20		
3 & 4 Methylphonol	74	78	27 - 113	5	20		
Hexachlorobenzene	95	10 1	62 - 121	5	20		
Hexachlorobutadiene	92	90	32 - 143	2	20		
Hexachloroethane	86	87	42 - 110	2	20		
Nitrobenzene	82	អូ1	55 115	U	20		
Pentachlorophonol	83	101	44 - 142	9	20	1.	
Pyridine	51	42	10 109	19	40		
Surrogate	L	CS % Rec	LCSD %	Res	Accep	lance Limits	
Phenol d6	3	o	43		1	n - 94	
Nitroberizene-d5	8	3	81		3	5 114	
2-Fluorophenol	5	ນ	61		2.	1 - 100	
2-I luorobiphenyl	9	1	87		1	3 116	
2,4.6-Tribromophenol	9	6	97		1	0 123	
Terphenyl-d14	8	8	89		3	3 141	

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14047

Method: 6010B Preparation: 3010A

To:7137488664

Lab Sample ID: Client Matrix:	MB 600-14047/1-A Water	Analysis Batch: 600-14070 Frep Batch: 600-14047		Lab File ID: T0428	
Dilution	1.0	Units: mg/L		Initial Weight/Volume	50 mt
Date Analyzed. Date Prepared:	04/28/2009 1008 04/27/2009 1610			Final Weight/Volume	50 mL
∆nalyte		Result	Qual	MDL	RL
Silver		0.0012	U	0.0012	0.010
Arsenic		0.0033	U	0.0033	0.010
Barium		0.0016	U	0.0016	0.020
Cadmium		0 00073	U	0.00073	0.0050
Chromium		0.0016	U	0.0016	0.010
Lead		0.0029	U	0.0029	0 0 1 0
Selenium		0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-14047

Lab Sample ID. LB 600-13990/1-D

Lead

Sclenium

Method: 6010B Preparation: 3010A

0.0029

0.0042

0.010

0.040

TCLP

Instrument ID: TJA ICP 61E Client Matrix: Waste Prep Batch: 600 14047 T042809 Lab File ID: Dilution: 1.0 Units: mg/L Initial Weight/Volume. 50 nit. Date Analyzed: 04/28/2009 1030 50 mt I-mat Weight/Volume Date Prepared: 04/27/2009 1610 Date Leached: 04/24/2009 1430 Leachate Batch: (600-13990) Analyte Result Qual MUL RLSilver 0.0012 Ų 0.0012 0.010 Arsenic 0.013 0.010 0.0033 Banum 0.0590.0016 0.020 Cadmium 0.00073 U 0.00073 0.0050 Chromium 0.0016 U 0.0016 0.010

0.0029

0 014

u

Analysis Balch, 600-14070

Calculations are performed before rounding to avoid round off errors in calculated results.

Client. Noltex LLC

Job Number: 600-9786-1

Lab Control Sample - Batch: 600-14047

Method: 6010B Preparation: 3010A

To:7137488664

Lab Sample ID: - LOS 600-14047/2 A

Analysis Batch, 600-14070

Client Matrix.

Waler

Prop Batch: 600-14047

10

Date Prepared: 04/27/2009 1610

Dilution:

Date Analyzed. 04/28/2009 1012

Units: mg/L

Instrument ID: LJA ICP 61F Lab file ID: T042809

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.500	0.507	101	80 - 120	
Arsenic	1 00	1.03	103	80 120	
Barlum	1 00	1 04	104	80 - 120	
Cadmium	0.500	0.516	103	80 120	
Chromium	1 00	1.02	102	80 - 120	
Lead	1 00	1.05	105	80 - 120	
Selenium	1.00	1.02	102	80 - 120	

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14003

Method: 7470A Preparation: 7470A

Lab Sample ID: MB 600-14003/7-A

Analysis Batch 600-14051

Instrument ID Perkin Elmei FIMS-100

Offent Matrix: Dilution:

Water 1.0

Prep Batch: 600 14003

Of shit did N/A

Initial Weight/Volume. 40 mL

Date Analyzed:

04/27/2009 1632 Date Prepared: 04/27/2009 1015 Units 199/

Final Weight/Volume: 40 mL

Analyte

Result

Qual

MDI

E)

Mercury

0.10

0.021

0.20

TCLP SPLPE Leachate Blank - Batch: 600-14003

Method: 7470A Preparation: 7470A

TCLP

Lab Sample ID: LB 600-13990/1-B Client Matrix:

Waste

Analysis Batch, 600-14051

Instrument IO: Perkin Elmer FIMS 100

Ollution.

1.0

Prep Batch 600-14003

Lab File ID. N/A

40 ml

Date Analyzed:

04/27/2009 1655

Units tig/L

Initial Weight/Volume: Final Weight/Volume:

40 mL

Date Prepared: Date Leached:

04/27/2000 1015

Leachate Ratch 600 13990

Analyte

04/24/2009 1430

Result Qual MOL

RL

Mercury

0.094

0.021

0.20

Lab Control Sample - Batch: 600-14003

Method: 7470A Preparation: 7470A

Lab Sample ID: LCS 600 14003/8 A

Analysis Balch 600-14051

Water

Prep Balch 600-14003

Instrument ID: Perkin Elmer FIMS-100

Client Matrix: Diluhon:

1.0

Units: ug/l

Spike Amount

Lab File ID: N/A Final Weight/Volume:

Date Analyzed: Date Prepared.

04/27/2009 1634 04/27/2009 1015 Initial Weight/Volume.

50 ml 50 mL

Arralyte

Result

% Rec

Limit

Ouar

Mercury

3.00

2.78

93

80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results

TestAmerica Houston

Page 20 of 28

05/07/2009

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14055

Method: 1010 Preparation: N/A

Lab Sample ID: MB 500-14055/1

Analysis Barch: 600 14055

Client Matrix:

Waste

Prep Batch, N/A

Instrument ID. No Equipment Assigned

Dilulion

10

Lab File ID: N/A Initial Weight/Volume:

Date Analyzed: 04/27/2009 1810

Units: Dogrees F

Final Weight/Volume.

Date Prepared. N/A

1.0 mL

Analyte

Result

Qual

RL

RL

Flashpoint

>186

1.0

1.0

Lab Control Sample - Batch: 600-14055

Method: 1010 Preparation: N/A

Lab Sample ID: LCS 600-14055/2

Client Matrix:

Dilution:

Waste

1.0

Date Analyzed. 04/27/2009 1810

Date Prepared: N/A

Analysis Batch, 600-14055

Prep Batch: N/A

Spike Amount

Units. Degrees F

Instrument ID: No Equipment Assigned

Lab File ID. N/A Initial Weight/Volume.

Final Weight/Volume. 60 mt.

Analyte

Result

% Rec.

81.0

82.0

Limit

Qual

Flashpoint

101

96 91 103 09

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client Noltex LLC

Job Number: 600-9786-1

Matrix Spike - Batch: 600-14529

Method: 9012 Preparation: 7.3.3

Lab Sample ID Client Matrix:

600-9786-1

Waste

20

Dilution.

05/07/2009 1416 Date Analyzed: Date Prepared. 05/06/2009 1300 Analysis Batch: 600 14640 Prep Batch 600-14529

Units: ug/kg

Instrument ID: WC05 Lachat 1

Lab File ID: N/A

Initial Weight/Volume: 10 g

Final Weight/Volume. 250 ml

Analyte

18

Spike Amount

Result

% Rec.

Limit

Qual

Reactive Cyanide

Sample Result/Qual

1000000

41800

0 - 100

Duplicate - Batch: 600-14529

Lab Sample ID

Cheni Mainx Waste

Dilution

Date Analyzed. 05/07/2009 1416 Date Prepared: 05/06/2009 1300

600 9786-1

1.0

Analysis Batch: 600-14640 Prep Batch: 600-14529

Units. ug/Kg

Method: 9012 Preparation: 7.3.3

Instrument ID: WC05 Lachat-1

Lab File ID: N/A

Initial Weight/Volume: 10 g

Final Weight/Volume: 250 ml

Analyte

Sample Result/Qual

18

Result

RPD

Qual

Reactive Cyanide

IJ

18

NC

Limit

20

IJ

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client Nollex LLC

Job Number: 600 9786-1

Method Blank - Batch: 600-14529

Method: 9034 Preparation: 7.3.4

Lab Sample ID. Chent Matrix

MB 600-14529/1-A

Waste

Dilution: 1.0

05/07/2009 1409 Dale Analyzed: Date Prepared: 05/06/2009 1300 Analysis Batch: 600-14638 Prep Batch: 600-14529

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: 10 ml Final Weight/Volume 250 mL

Analyte

Result

Qual

MDI.

RL

Réactive Sulfide

14

U

14

50

Lab Control Sample - Batch: 600-14529

Method: 9034 Preparation: 7.3.4

Lab Sample IO:

LCS 600 14529/2 A

Client Matrix:

Waste 10

Dilution. Date Analyzed:

05/07/2009 1409 Date Prepared. 05/06/2009 1300

Analysis Batch: 600-14638 Prep Balch 600 14529

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume 10 mL

Final Weight/Volume: 250 mL

Analy(e

Spike Amount

Result

% Rec

Limit

Qual

Reactive Sulfide

1840

910

49

0 - 100

Matrix Spike - Batch: 600-14529

Method: 9034 Preparation: 7.3.4

Lab Sample (D)

600-9786 1

Client Matrix: 10

Dilution: Date Analyzed. Date Prepared:

Waste

05/07/2009 1409 05/06/2009 1300 Analysis Datch, 600-14638

Prep Batch: 600 14529

Units. mg/Kg

Instrument ID. No Equipment Assigned

Lab Infe ID.

Initial Weight/Volume: 10 q I-mai Weight/Volume. $250 \, \mathrm{mL}$

Analyte

40

Snike Amount

Result

% Rec.

Limit

Qual

Reactive Sulfide

Sample Result/Qual

1840

970

51

0 - 100

Calculations are performed before rounding to avoid round-off errors in calculated results

TestAmerica Houston

Page 23 of 28

05/07/2009

Client: Noltex LLC

Job Number: 600-9786-1

Duplicate - Batch: 600-14529

Method: 9034 Preparation: 7.3.4

Lab Sample ID: 600 9786 1

Analysis Batch: 600-14608

Client Matrix:

Waste

Dilution

1.0

Prep Balch 600-14529

N/A Lab File ID:

Instrument ID. No Equipment Assigned

Date Analyzed. | 05/07/2009 1409

Units: mg/Kg

Initial Weight/Volume: Final Weight/Volume.

10 g 250 mt

Reactive Sultide

Date Prepared: 05/06/2009 1300

Sample Result/Qual

Result

RPD 29

Limit 20

Qual

Analyte

40

30.0

j

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client Noltex LLC

Job Number 600-9786-1

Lab Control Sample - Batch: 600-14223

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-14223/1

Analysis Hatch 600-14223

Client Matrix.

Waste

Instrument ID: No Equipment Assigned

Dilution.

Prep Batch: N/A

N/A Lab File ID

1.0

Units BTU/lb

Initial Weight/Volume:

0.0050 g

Date Analyzed: 04/29/2009 1645

Final Weight/Volume:

10 mL

Date Prepared: N/A

Spike Amount

Result

% Rec.

Limit

Qual

вти

∧nalyte

11400

11100

98

90 - 110

Calculations are performed before rounding to avoid round-off errors in calculated results

DATA REPORTING QUALIFIERS

Client. Noltex LLC

Job Number 600-9786 1

Lab Section	Qualifier	Description
GC/MS VQA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VQA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is loss than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Les: 500 9786 #2

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505-505₅₅₋₅₋₂

TestAmerica Laboratories, Inc.

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Pojed Manager

EPAHO109000825

Login Sample Receipt Check List

2818425097

Client: Noltex LLC

Job Number, 600-9786-1

Login Number: 9786

List Source: TestAmerica Houston

Creator: Clarke, Michael (Mike) C

List Number: 1

Question	Γ / F/ NA	Comment
Radioactivity cither was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4,/
COC is present.	tme	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	frue	
There are no discrepancies between the sample IDs on the containers and the COC	True	
Samples are received within Holding Time.	true	
Sample containers have legible labels.	frue	
Containers are not broken or leaking	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
There is sufficient vol. for all requested analyses, and, any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is ⊴6mm (1/4") in diameter.	Trug	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multipliasic samples are not present	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 600-9786-2 SDG Number:

Job Description: Supplemental Report MO810194-003 & -009

For: Noltex LLC 12220 Strang Road La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil a. Rodrigue

Approved for release Neil A Medague Project Masages II 9:29/2009 2 53 PM

Neil A Rodrigue
Project Manager II
neil.rodrigue@testamericainc.com
05/29/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

Test/merica Houston 6310 Rothway Street, Houston, fX 7/040 Tel (713) 690-4444 Fax (713) 690-5646 www.hoslamericainc.com **helac**

05/29/2009

To:7137488664

Job Narrative G00-J978G-2

Comments

Supplemental report, subcontracted corrosivity analysis report is attached.

Page 2 of 3

05/29/2009

Certificate of Analysis



SINCE 1985

FOR THIS SECTION OF SERVICE SERVICES OF SE

Qual to Controlled Through Analysis

TEL. (281) 495-2400 FAX. (281) 495-2410

CLIENT: Test America
SAMPLE: Multiple Samples
LABORATORY NO: 55013 R

REQUESTED BY:
REPORT DATE:
PURCHASE ORDER NO:

Mr. Neil Rodogue 3 May 29 (2009) Pending

TEST

RESULT

Lab No. Sample 10.	pH of Water Extractions of Halogenated Organic Solvents and Their Admixtures. ASTM D 2110
55013-01 9785-1 (Drum # M0810194-009)	6.78
55013-62 9796-2 (Drum # M0810194-003)	û 63

Respectfully submitted
FOR, TEXAS OILTECH LABORATORIES, L.P.

A. Phil Sorumakhah

Director of Laboratory Operations



These are alyses, opinion a conditions of the track of the related supplied by the crieflorism. In this rewhose exclusive and near deviational way this report is readd. Texas Other to taborationes, loc. and is onners assume no responsibility and make no warranty for proper operations of any perform of, gas or the other material in regingation with which this report is used or refer to a

Page 3 of 3





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3357

Expiration Date 6/3/2011

Generator: Cameron Compression Systems

Address: 600 South First Street

Ponca City, OK 74604

Waste Information

Name of Waste: Sodium hydroxide solution

TCEQ Waste Code #: Product

Container Type:

Detailed Description of Process Generating Waste:

used plating solution "this material is not a waste, it is product being used for what its

intended purpose"

Color: varies

Odor: mild

pH: >14

Physical State:

Incompatibilities: strong acids

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



V

CES Environmental Services - Houston Facility

4904 Griggs Road, Houston, TX 77021

口

Product

CES Environmental Services - Port Arthur Facility

2420 S. Gulfway Dr., Port Arthur, TX 77641

U.S. EPA ID N					676-1676 Number: 3		U.S. E		one (713) 67 Jumber: TXI				76-146 R Numt		8585
TCE	Q Indust	rial Sol	id Waste	Permit N	ımber: 305	148									
SECTION 1:	Genera	tor in	formatic	20					11,000					<u> </u>	
Company:	Camero	on Cor	npressio	n System	ıs										
Address:	600 So	uth Fir	st Stree	t	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						***************************************			ANT COLUMN TO THE	
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Phone Num		****	(205) 98	2-7799		***************************************	Fax Nur	nber:	(205) 982	-0608				Directory (Control	
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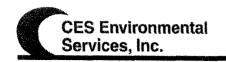
Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes I No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto									
If "Yes", Is it: D001 (Ignitable) D002 (Corrosive) D003 (Reactive) Characteristic for Toxic Metals: D004 D005 D006 D007 D008 D009 D010 D011 Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)									
Is this an "F" or "K" Listed waste or mixed with one?									
Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?									
Texas State Waste Code Number: Lecycle / Product									
Proper US DOT Shipping Name: UN3263, Corrosive liquids, basic, inorganic, n.o.s., (sodium hydroxide) Class: 8 UN/NA: UN3263, Co PG: II RQ:									
Flash Point pH Reactive Sulfides Reactive Cyanides Solids									
	6								
Oil & Grease TOC Zinc Copper Nickel	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								
0 <u>mg/l</u> 0 <u>mg/l</u> 0 <u>mg/l</u> 0 mg/l 0 <u>m</u>	<u>:/l</u>								

SECTION 4:	Physical	and	Chemical	Data
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COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	5-15 95-25	%
Water	95-95	%
	Link A Schille Australian Market Schille Australian Schille Australia Australia Australia Australia Australi	

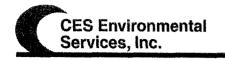
		ste requires the use of special pro	tective equipment, please	e explain.	
	iments, notes	pporting Documents , data and/or analysis attached to none	this form as part of the w	raste	
***************************************	-	lities bilities (if any):			
Laboratory	analysis of th	Knowledge Documentation e hazardous waste characteristics g generator knowledge:	listed below, WAS NOT P	ERFORMED	
TCLP Metal	¢!	none			
TCLP Volati		none			
TCLP Semi-		none			
Reactivity:		none			
Corrosivity:		yes			
Ignitability:		none	**************************************		
SECTION 9: 1 Facilities	Is this mater	Classification Under 40 CFR 437 (Properties of Wastewater or Wastewater sludge omplete this section.		quirements f	or Centralized Waste Treatment
	PLEASE CHEC	K THE APPROPRIATE BOX. IF NO API	PROPRIATE CATEGORY, GO	TO THE NEXT	PAGE.
2000	Metal finishir Chromate wa Air poliution Spent anodiz Incineration v Waste liquid Cyanide-cont Waste acids a Cleaning, rins Vibratory del	plating baths and/or sludges ig rinse water and sludges stes control blow down water and sludge: ing solutions vastewaters	is from electroplating or pho	osphating ope	erations
	Lubricants Coolants Contaminate Used petrole Oil spill clean Bilge water	uisions or mixtures d groundwater clean-up from petrole um products	eum sources		

<u></u>	Interceptor wastes		
<u></u>	Off-specification fuels		
	Underground storage remediation waste		
	Tank clean-out from petroleum or oily sources		
	Non-contact used glycols		
	Aqueous and oil mixtures from parts cleaning operations		
	Wastewater from oil bearing paint washes		
Organics Sul	<u>category</u> : Subpart C		
<u></u>	Landfill leachate		
<u></u>	Contaminated groundwater clean-up from non-petroleum sources		
<u></u>	Solvent-bearing wastes		
<u>L</u>	Off-specification organic product		
ليا ا	Still bottoms		
	Byproduct waste glycol		
<u></u>	Wastewater from paint washes		
<u> </u>	Wastewater from adhesives and/or epoxies formulation		
Line	Wastewater from organic chemical product operations		
L	Tank clean-out from organic, non-petroleum sources		
341			
(1)	ti sha constant a matalana ati a ani a mana a sa ta a cana a fi shi a cana a fi shi a cana a fi shi a cana a fi		
	If the waste contains oil and grease at or in excess of 100 mg/L, the was	ite snouid be classified in tr	ie olis subcategory.
/2).			
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of	the nathetants fisted halou	In remandantions in
	excess of the values listed below, the waste should be classified in the r		ni concentrations in
		ingrais andeare@ork-	
	Cadmium: 0,2 mg/L		
	Chromium: 8.9 mg/L		
	Copper: 4.9 mg/L		
	Nickel: 37.5 mg/t.		
(3)	If the waste contains oil and grease less than 100 mg/L, and does not he or nickel above any of the values listed above, the waste should be clas Metals Subcategory Organics Subcategory		
SECTION 10	Additional Instructions		
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish a el, and Oil and Grease, CES will send offsite to a commercial laboratory a o acceptance. The generator will be responsible for the cost of the analy	sample to determine these	
The informa I hereby cer my knowled properties e	Generator's Certification tion contained herein is based on generator knowledge a tify that the above and attached description is complete and accur- ge and ability to determine that no deliberate or willful omissions o xist and that all known or suspected hazards have been disclosed. Sted are representative of all materials described by this document	ate to the best of of compostion I certify that the	data.
Authorized :	ilignature:	Date:	5/31/09
Printed Nan	ne/Title: L. Pinson/President		
CES USE ON	Y (DO NOT WRITE IN THIS SPACE)		
Compliance	Officer: Parmet Type 2-2-09 Rejected		



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
0.40/gal +trans
2. Contamination Limit (maximum limit before surchages apply):
<0.5%. Solido, 75% Caustic by hidration
3. Surcharge Pricing:
4. Special Testing Requirements:
Caustic Analysis: pH, 5.g., % NaOH by titration
5. Treatment and Handling Protocol:
Put into Nast product tank
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):				
		-		
8. Management for Product Recovered/Recy	ycled (if applicable)			



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

Date: 5/19/09

From: Miles Root

Lab Memo: 09-093

Subject: Sierra Chemical Evaluations 0509-18 thru 21

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

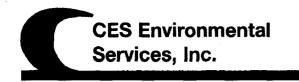
Evaluation 0509-18 is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

Evaluation 0509-19 is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

Evaluation 0509-20 is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

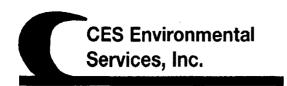
Evaluation 0509-21 is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream.

This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

Sierra Chemicals					
Evaluations 0509-18 thru 21					
	0509-18	0509-19	0509-20	0509-21	
H2SO4, wt%	47				
NaOH, wt%		8.8			
Specific Gravity	1.137	1.147			
CES Use	No	No	Yes	Yes	
PACES Use	Yes	Yes	No	No	
Odor Issues	None	None	None	None	
Treatability	Use @ PACES	N/A	Difficult	Very Difficult	
Phenols, ppm			0	0	
Metals			Treated Sx	Untreated Sx	
Ni	1	:	0.11	71	
Zn			0.022	2.432	
Cu		:	0.032	0.558	
Cd		l J	0.01	0.146	
Cr		1	0	174	
Recommended?	Yes	Yes	Yes	Yes	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3358

Expiration Date 6/3/2011

Generator: Houston Marine Services /TransMontinge

Address: 850 Independence Pkwy North

Baytown, TX 77520

Waste Information

Name of Waste: Oily Debris and absorbent

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste: absorbents used in cleaning equipment around the yard

Color: dark

Odor: mild

pH: na

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

As (m

Address:	SECTION 1: Gene Company:		ziose / TransMontingo		
City, State, Zip: Baytown, Texas 77520 Contact: Mike Newton Title: Plant Manager Phone No: 281-424-2525 Fax No: N/A 24/hr Phone: 281-424-2525 U.S. EPA I.D. No: TXR000024570 State I.D. Ni/A SIC Code: N/A SECTION 2: Billing Information — Same as Above Company: Phoenix Pollution Control & Environmental Services, Inc. Address: 4808 Fairmont Parkway #774 City, State, Zip: Pasadena, Texas 77505 Contact: Connie Fetgatter Title: Accounting Phone No: 281-838-3400 Fax No: 281-424-7748 SECTION 3: General Description of the Waste Name of Waste: Oily Debris & Absorbent Detailed Description of Process Generating Waste: Absorbent Used in Cleaning Equipment Around The Yard. Physical State: Liquid Sludge Powder Solid Filter Cake Combination Color: N/A Odor: Mild Specific Gravity (water=1): N/A Density: N/A lbs/gal Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds? Yes No Layers: Single-phase Multi-phase Container Type: Drum Tote Truck Other (explain) Container Size: 55 Gal.	• •				
Contact: Mike Newton Title: Plant Manager Phone No: 281-424-2525 Fax No: N/A 24/hr Phone: 281-424-2525					
Phone No: 281-424-2525	•			Title:	Plant Manager
24/hr Phone: U.S. EPA I.D. No: State I.D. N/A SIC Code: SIC Code: Address: Absorbent Social Code: Solid In Cleaning Equipment Around The Yard. Code: Solid In Cleaning Equipment Around The Yard. Solid In Cleaning Equipment Around The Yard. Solid In Cleaning Equipment Around The Yard. Solid In Cleaning Equipment Around The Yard. Solid In Cleaning Equipment Around The Yard. Solid In Cleaning Equipment Around The Yard. Solid In Cleaning Equipment Around The Yard. Solid In Clean			· · · · · · · · · · · · · · · · · · ·		
U.S. EPA I.D. No: State I.D. SECTION 2: Billing Information — Same as Above				****	ATTAC
State I.D. N/A SIC Code: N/A SECTION 2: Billing Information — Same as Above Company: Phoenix Pollution Control & Environmental Services, Inc. Address: 4808 Fairmont Parkway #274 City, State, Zip: Pasadena, Texns 77505 Contact: Comnie Fetgatier Title: Accounting Phone No: 281-838-3400 Fax No: 281-424-7748 SECTION 3: General Description of the Waste Name of Waste: Oily Debris & Absorbent Detailed Description of Process Generating Waste: Absorbent Used In Cleaning Equipment Around The Yard. Physical State: Liquid Sludge Powder Solid Filter Cake Combination Color: N/A Odor: Mild Specific Gravity (water=1): N/A Density: N/A lbs/gal Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds? Yes No Layers: Single-phase Multi-phase Container Type: Drum Tote Truck Other (explain) Container Size: 55 Gal.				•	
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Company: Address: 4808 Fairmont Parkway #274					
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Address: City, State, Zip: Pasadena, Texas 77505 Contact: Phone No: 281-838-3400 Fax No: 281-424-7748 SECTION 3: General Description of the Waste Name of Waste: Oily Debris & Absorbent Detailed Description of Process Generating Waste: Absorbent Used In Cleaning Equipment Around The Yard. Physical State: Liquid Solid Filter Cake Combination Color: N/A Odor: Mild Specific Gravity (water=1): N/A Density: N/A lbs/gal Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds? Yes No Layers: Single-phase Multi-phase Container Type: Drum Tote Truck Other (explain) Container Size: 55 Gal.				ces Inc	
City, State, Zip: Comiact: Comic Fetgatier Phone No: 281-838-3400 Fax No: 281-424-7748 SECTION 3: General Description of the Waste Name of Waste: Oily Debris & Absorbent Detailed Description of Process Generating Waste: Absorbent Used In Cleaning Equipment Around The Yard. Physical State: Liquid Sludge Powder Solid Filter Cake Combination Color: N/A Odor: Mild Specific Gravity (water=1): N/A Density: N/A lbs/gal Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds? Yes No Layers: Single-phase Multi-phase Container Type: Drum Tote Truck Other (explain) Container Size: 55 Gal.	• •			503, IIIO.	
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Name of Waste: Oily Debris & Absorbent Detailed Description of Process Generating Waste: Absorbent Used In Cleaning Equipment Around The Yard. Physical State:	1 110110 1100	201-030 3-00	Tax No.	201-12-11-10	
Detailed Description of Process Generating Waste: Absorbent Used In Cleaning Equipment Around The Yard. Physical State:	SECTION 3: Gene	ral Description of the	Waste		1
Solid			ng Waste: Absorbent Used	In Cleaning Equ	nipment Around The Yard.
Specific Gravity (water=1): N/A Density: N/A lbs/gal Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds? Yes No Layers: Single-phase Multi-phase Container Type: Drum Tote Truck Other (explain) Container Size: 55 Gal.	Physical State:	<u> </u>			1
Does this material contain any total phenolic compounds?	Color: N/A	O	dor: <u>Mild</u>		
Does this material contain any para substituted phenolic compounds?	Specific Gravity (wa	ater=1): <u>N/A</u>	Density: N/A lbs/gal		
Layers: Single-phase	Does this material c	ontain any total pheno	olic compounds? 🔲 Yes	⊠ No	
Container Type: Drum Tote Truck Other (explain) Container Size: 55 Gal.	Does this material c	ontain any para subst	ituted phenolic compounds	? 🗌 Yes 🛭] No
Container Size: 55 Gal.	Layers:	⊠ Single-phase	☐ Multi-phase		
Container Size: 55 Gal.	Container Type:	□ Drum	☐ Tote ☐	Truck	Other (explain)
	Container Size:	55 Gal.			
Frequency:		<u> </u>			
Frequency: Weekly Monthly Operarly Monthly Operarly Veerly	_				
	Frequency:	Weekly	Monthly	Quarterly	🛭 Yearly
Number of Units (containers): 1 Drums Other:					
Texas State Waste Code No: N/A Recycle	Texas State Waste C	Code No: N/A	Recyclo		
Proper U.S. DOT Shipping Name: Non RCRA/Nofi DOT Regulated Material					
Class: NA PG: NA RQ: NA	Class:	UN/NA	,	DC.	DO:

N/A	pH	Reactive Sulfides	Reactive Cy	anides	Solids	
OH 0-47				Nickel	100%	
Oil&Grease V/Amg/I	N/Amg/l	Zinc <u>N/A</u> mg/I	Copper N/Amg/I	N/Amg		
ALCINE) I	(inverse	I INVINSI	Wirtings	I Maria	/1	
SECTION 4: Ph	ysical and Chemics					
Т	COMPON he waste consists of	ENTS TABLE the following materials	Ra	Concentration	units or %	
Absorbent & Del			100		%	
ECTION 5: Sa	fety Related Data					
f the handling of <u>PE</u>	f this waste require	s the use of special protecti	ve equipment, pleas	e explain.		
ECTION 6: At	tached Supporting	D ocuments				
ist all document	ts, notes, data, and/	or analysis attached to this	form as part of the	waste approva	il package.	
SECTION 7: Inc	compatibilities					
Please list all inco N/A	ompatibilities (if an	y):				
<u>\\A</u>						
V/A SECTION 8: Ge aboratory analy	ompatibilities (if an nerator's Knowled		ed below, WAS NO	T PERFORM	ED based upon the fo	llowing
V/A SECTION 8: Ge Laboratory analy generator knowle ICLP Metals:	ompatibilities (if an nerator's Knowled	ge Documentation	ed below, WAS NO	Г PERFORM	ED based upon the fo	llowing
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J/A SECTION 8: Ge Laboratory analysenerator knowle ICLP Metals: ICLP Volatiles: ICLP Semi-Vola Reactivity: Corrosivity: gnitability: SECTION 9: Ge	empatibilities (if an enerator's Knowled sysis of the hazardous edge:	ge Documentation as waste characteristics, list			·	·
Aboratory analytenerator knowled tenerator knowled tenerator knowled tenerator knowled tenerator knowled tenerator knowled tenerator knowled tenerator knowled tenerator tenerat	empatibilities (if an enerator's Knowled sysis of the hazardous edge: X	ge Documentation as waste characteristics, list tion ased on generator knowled accurate to the best of my	edge and/or [] analy knowledge and abil	tical data. I he ity to determin	ereby certify that the a	bove at
J/A SECTION 8: Ge Aboratory analysenerator knowles CCLP Metals: CCLP Semi-Vola Reactivity: Corrosivity: gnitability: SECTION 9: Ge The information contached description	merator's Knowled ysis of the hazardou edge:	ge Documentation as waste characteristics, list tion ased on generator knowle accurate to the best of my exist and that all known or s	edge and/or [] analy knowledge and abil uspected hazards hav	tical data. I he ity to determin	ereby certify that the a	bove a
Aboratory analysenerator knowledgenerator knowledgenerator knowledgenerator knowledgenerator knowledgenerator knowledgenerator knowledgeneratory. CLP Semi-Volumentatory: GECTION 9: Geometrached descriptions of complex co	merator's Knowled ysis of the hazardor edge:	ge Documentation as waste characteristics, list tion ased on generator knowled accurate to the best of my	edge and/or [] analy knowledge and abil uspected hazards hav	tical data. I he ity to determin	ereby certify that the allocate that no deliberate code. I certify that the	bove a

Rejected

SF	SECTION 10: Waste Receipt Classification Under 40 CFR 437					
Is	Is this material a wastewater or wastewater sludge? YES	NO				
If	If 'Yes', complete this section.					
PI	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIA	TE CATEGORY, GO TO THE NEXT PAGE.				
Meta	<u>letals Subcategory:</u> Subpart A					
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electropl Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment					
<u>Oils</u>	ils Subcategory: Subpart B					
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes					
Orga	rganics Subcategory: Subpart C					
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources					

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils su				
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.			
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L n: 4.9 mg/L h: 37.5 mg/L		
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.		
		Metals Subcategory		
		Oils Subcategory		
		Organics Subcategory		

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$ 45 down + trains + fsc
2.	Contamination Limits (maximum limit before surcharges apply):
	No free liquid
_	
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Oil Pad Recycling
į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
_	
ð.	Management for Product Recovered/Recycled (if applicable);
į	